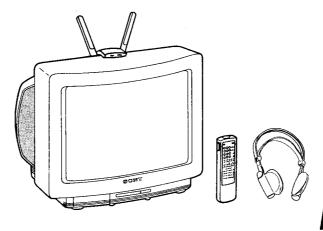
KV-H2511D MDR-IF310/RM-816

SERVICE MANUAL

AEP Model Chassis No. SCC-F07D-A



AE-1C CHASSIS

MODELS OF TH	HE SAME SERIES
KV-H2511D	KV-H2513E
KV-H2511A	KV-H2512U
KV-H2510B	

SPECIFICATIONS

[KV-H2511D]

Television system

Color system

PAL, SECAM, NTSC3.58, NTSC4.43

Stereo system

GERMAN stereo

Channel coverage

B/G/H

B/G/H

VHF: E2-E12 UHF: E21-E69

CABLE TV (1) : S1-S41

CABLE TV (2) : S01-S05, M1-M10, U1-U10

Picture tube

Inputs

Hi-Black Trinitron tube

Approx. 63.5 cm (25 inches)

(Approx. 59 cm picture measured diagonally)

110 ° -degree deflection

Ö-1 21-pin connector:

CENELEC standard including RGB input.

→ 2 21-pin connector: including S video input

Flont: 3 Audio and video input jacks:

phono jack.

Including S Video input Y: 1Vp-p ± 3dB 75ohm C: 0.3Vp-p ± 3dB 75ohm Outputs

21-pin connector: CENELEC standard

Headphones jack: stereo minijack External speaker terminals: 2-pin DIN Audio output jacks: phono jack (output dependent upon TV

settings)

Sound output

Power consumption

Weight incl.speakers Supplied accessories

30 W + 30 W 104 Wh

Dimensions incl.speakers Approx. 575×510×487 mm (w/h/d)

Approx. 36kg

MDR-IF310 Headphones, IEC

designation R6 batteries.

-Continued on next page-



TRINITRON®COLOR TV SONY

[RM-816]

Remote control system

infrared control

Power requirements

3V dc

2 batteries IEC designation

R6 (size AA)

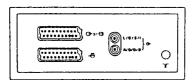
Dimentions

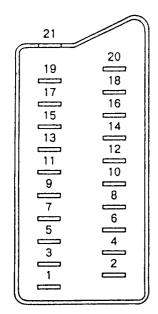
Approx.75 \times 221 \times 23mm (w/h/d)

Weight

Approx.230g (including Batteries)

Design and specifications are subject to change without notice.





Pin No.	1	2	Signal	Signal level
1	0	0	Audio output B (right)	Standard level: 0.5Vrms Output Impedance: Less Than tkohm*
2	0	0	Audio Input B (right)	Standard level: 0.5Vrms Input Impedance; More than 10kohms*
3	0	0	Audio output A (left)	Standard level: 0.5Vrms Output Impedance: Less than 1kohm*
4	0	0	Ground (audio)	
5	0	0	Ground (blue)	
6	0	0	Audio Input A (left)	Standard level: 0.5Vrms Input Impedance; More than 10kohms*
7	0	•	Blue input	0.7V ± 3dB, 75ohms, positive
8	0	0	Function select (AV control)	High state (9.5 - 12V): Part mode Low state (0 - 2V): TV mode Input Impedance: More than 10kohm Input capacitance: Less than 2 nF
9	0	0	Ground (green)	
10	0	0	Open	
11	0	•	Green	Green signal: 0.7V ± 3dB, 75ohms, positive
12	0	0	Open	
13	0	0	Ground (red)	
14	0	0	Ground (branking)	
15	0	-	Red Input	0.7V ± 3dB, 75ohms, positive
		0	(S signal) croma input	0.3V ± 3dB, 75ohms, positive
16	0	•	Blanking Input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input Impedance: 75ohms
17	0	0	Ground (video output)	
18	0	0	Ground (video Input)	
19	0	0	Video output	1V ± 3dB, 75ohms, positive Sync: 0.3V (- 3, +10dB)
20	0	-	Video input	1V ± 3dB, 75ohms, positive Sync: 0.3V (– 3, +10dB)
20	-	0	Video Input/Y (S signal)	1V ± 3dB, 75ohms, positive Sync: 0.3V (- 3, +10dB)
21	0	0	Common ground (plug,	shield)

4 Pin Connector (⊕)

in No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75ohm, positive Sync 0.3V ³ ₊₁₀ dB
4	C (S signal) input	0.3V ± 3dB 75ohm, positive

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK & ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

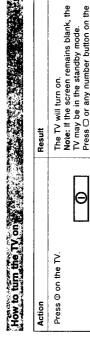
SECTION 1

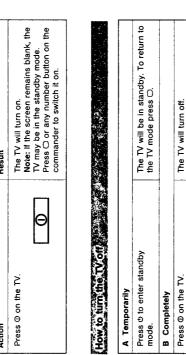
GENERAL

1-2. PRESETTING

1-1. SWITCHING ON/OFF

Affer you have completed the basic preparation your TV is ready to be connected to the mains power supply (220/240V AC, 50Hz).





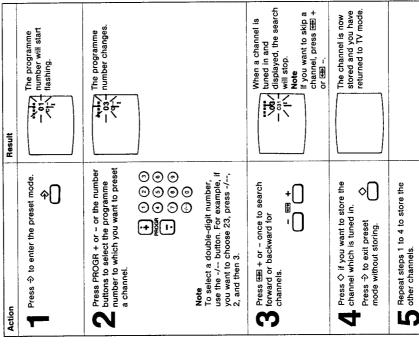


 $T\!V$ stations broadcast their channels at certain frequencies. You must preset these channels to programme numbers on the $T\!V$ before you can watch the $T\!V$

After you have installed the TV, you need to preset TV channels.

Slide open the full function side of the remote commander to reveal preset buttons.

There are 60 spaces for storing these channels.



9

By recording the channel numbers displayed after step 3, the direct channel funing method (page 6) may be used to re-order the programme number sequence to suit your convenience.

Note: These buttons

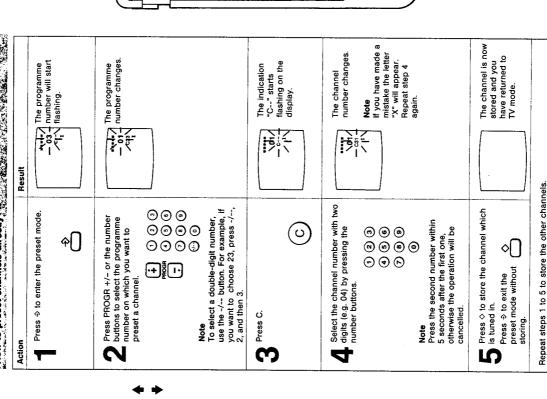
should be used in preset mode only.

0!0

000

0°8 -}| - 8 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9 | - 9

How to preset channels directly



How to Name a Station

You can use up to five characters to "name" a channel or station (i.e. BBC1).

ĕ	Action	-		Result	
	_	Select a programme number you want to name by pressing the PROGR +/- or the number buttons.	000 000 000 000 	80	The selected programme number will appear.
* • •	N	Press ∌.		10-0-1	The programme number starts flashing.
	က	Press C.	o ()	**************************************	The first column of the station name indication will start flashing.
7	4	Press + or - to select a letter in the alphabet, a number, or a blank space.	etter in the blank +	1 5 5 5 T	The letters of the alphabet, numbers and the space ("-") will appear sequentially.
4/	LO	Press C.	o()	25. 2.2.	The first character is now set and the second column will start flashing.
•	ထ	Repeat steps 4 and 5 to set each letter.	set each lette	.	
17	\	Press ♦.	◇ []		The channel name is now stored and you have returned to TV mode.

How to tune in a channel temporarily

You can tune a channel in temporarily, if it has not been preset.

Action	5	Result
_	Press C.	The indication "C" appears on the screen.
2	Select the channel number with two digits by pressing the number buttons (e.g. for channel 4, first press 0, then 4,	The channel is received, but it is not stored to any programme number.

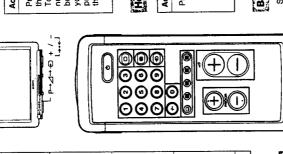
0

⊌

1-3. BASIC TV OPERATION

How to Skip Programmes Using the PROGR +/- buttons you can skip unused programme channel numbers. However, the skipped numbers may still be called up using the number buttons.

	ACIIOII		Result	
_	Press ⇒ to enter the preset mode.	set mode.	150 —	The programme number will start flashing.
~	Select the programme number that you want to skip by pressing PROGR +/- or the number buttons.			The programme number changes.
က	3 Press Coo.	. :		The lowest channel number appears under the programme number.
4	Press ♦.	⋄ □		The channel is now stored and you have returned to TV mode.



This section introduces you to the basic control functions which are available on the simple side of the remote commander.

How to Select Programmes ***

Before you can select programmes make sure that you have preset channels, refer to page 5.

	The selected programme is displayed.
Result	23
	000 000 000 000
Action	Press PROGR +/- or the number buttons. To select a double-digit number, uses the -/ button. For example, if you want to choose 23, press -/, 2, and then 3.

Action	Result	
Press Δ + or	- F	The volume markers will appear and are
	7	adjusted accordingly.

Basic teletext operation

Select
The ® button to view the teletext.
The C button to request subtitles (P.888).
One of the coloured buttons for fastext operation.
The C button to return to TV mode.

For details about teletext operation, refer to page 14.

How to operate with the buttons on the TV

You can also select programmes and adjust the volume using the $P_{+}\Delta J_{-}$ and $\rightarrow \bullet \bullet + J_{-}$ buttons on the front of the TV. For operation first press the $P_{-}\Delta J_{-}$ \oplus button repeatedly so that the P (for programme) or Δ (for volume) indication appears on the screen, and then adjust with the $\rightarrow \bullet \bullet + J_{-}$ buttons.

Note: To restore to factory set level press >• ← +/- together.

How to view the video input picture Press €. To return to the TV mode, press ○. For further details, refer to page 18.

How to Fine Tune Manually. If the picture is distorted, you can fine tune the channel manually

9	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Ine indication ← r → appears on the screen.
Fress & to enter the presentatione.	The programme number starts flashing.
Press 4. The fine tuning is stored.	ning is stored.

Note: Normal tuning can be restored if you preset the channel once more.

1-4. ADVANCED TV OPERATION

This section shows you how to use convenient features and how to adjust the picture and sound to your taste.

Use the full-function side of the Remote Commander.

How to use on-screen display and special sound features

You can enjoy the following convenient features.

- A-O-B

How to		
	Action	To resume normal picture/ sound
Display on-screen indications	Press (4)	Indications disappear after some seconds
Display programme numbers	Press @ twice	Press (twice again.
Mute the sound	Press of.	Press ooK again.
Select a language in bilingual programmes.	Press A/B. The selected mode of the A-(C)-B indicator on the TV lights up.	Press A/B.
Set the sound for music listening	Press J.	Press 기 again.
Use the space sound (special acoustic effect)	Press 🟵	Press 😂 again.
Request the time	Press @.	Press 🕘 again.

ow to	Action	To resume normal picture/
splay on-screen indications	Press (A	Indications disappear after some
•		seconds
isplay programme numbers	Press @twice	Press ⊕twice again.
lute the sound	Press d≰.	Press ooK again.
elect a language in bilingual rogrammes.	Press A/B. The selected mode of the A-OD-B indicator on the TV lights up.	Press A/B.
et the sound for music stening	Press 7.	Press ∏ again.
se the space sound (special coustic effect)	Press 🏵	Press 😂 again.
equest the time	Press @.	Press @ again.

0

programmes.	of the A-OO-B TV lights up.	of the A-O-B indicator on the TV lights up.		9	
Set the sound for music listening	Press 7.		Press Л again.	0000	
Use the space sound (special acoustic effect)	Press 🟵		Press 😂 again.	9 9 9 P	
Request the time	Press @.		Press 🖾 again.		
How to adjust the picture and sound	ture and sour	pul			ا، ح
Although the picture and sound have been adjusted at the factory, you might want to adjust them to your own taste. To do this, please follow the steps below.	und have beer te. To do this,	n adjusted at th please follow tt	e factory, you might want to ne steps below.		
For picture adjustment					
To Adjust:	Press:	Then:	Result: (- ← +)	(P)	
Picture:				9	<u>, </u>
Colour Intensity	•	+	Less ←→ More)
Picture Contrast	•] [Less → More		
Brightness	Φ		Dark ← Bright		

How to select a NICAM broadcast

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received, the PM symbol appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the PMS symbol appears. To check if the channel you are watching is receiving Nicam, press the on screen display button G, on the full function side of the remote commander

How to select the sound of your choice of the select the se

Nicam programmes can be broadcast in two ways. You may select the sound you want to hear in either of these, by pressing the

button on the full function side of the remote commander.

-A G B

Service being broadcast	Action	The sound you hear	Indication on the TV A⊜B	on the
Nicam		Stereo/Mono (2-channel)	崇	小
	Press A/B	Normally broadcast sound		
	Press A/B ag	Press A/B again to return to Stereo/Mono (2-channel)	(2-channe	6

Bilingual		Language A	洪	
	Press A/B	Language B		小
	Press A/B	Normally broadcast language		
	Press A/B ag	Press A/B again to return to language A		

^{*} Depending on availability of service.

To reset the picture and sound to factory set levels press ----

K

Balance

Treble Bass

More Left ← More Right

Less ← More Less → More

+ 1

۲

Brightness

Sound:

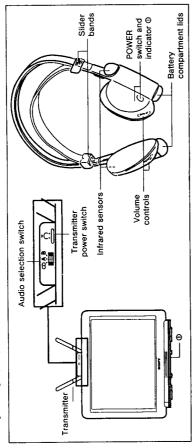
On the set:

Press →· ← +/- buttons simultaneously.

5

1-5. USING THE HEADPHONES

This cordiess stereo headphones system uses infrared rays allowing you to enjoy the benefits of normal TV viewing with high quality sound, free from the restriction of a headphones cord.



Action Result The transmitter will turn on and the infrared emitter Switch on the TV and press Ω on the transmitter. The transmitter will turn on and the infrared emitter lights will glow. Press Ω again to switch off. The audio signal is now being transmitted. The audio signal is now being transmitted. Note: For best reception, rotate the transmitter lens to face the listening position.

to/turn/on/the)Transmitter

Note: The headphones will automatically turn themselves off after approximately 3 hours. To continue use, turn on the power switch again.

Press © again to switch off.

|--|

Note: Be sure not to cover the infrared sensors with your hands or hair, or expose the headphones to direct

Using the transmitter audio switch.

By adjusting the audio switch on the transmitter you can select the sound of your choice. The A-O-B indicators on the TV set will identify which service is being broadcast.

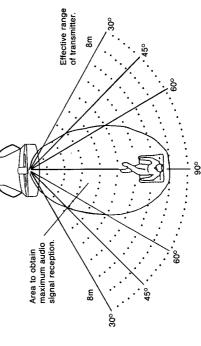
Service being	Indication on the	Tran	Transmitter audio switch position	osition	
broadcast	TV A-(3-B	8	A	В	
Nicam	Stereo/Mono (2-channel)	Stereo/Mono (2-channel)	Left channel	Right channel	
			Normally broadcast sound	nnd	
Bilinqual] -]				

Language B	əf
Language A	Normally broadcast language
Language A+B	ON ON
口洪	
洪 [
Bilingual	

Depending on availability of service.

Coverage of the infrared rays

The infrared rays will not penetrate walls or opaque glass, therefore, the headphones must be used within the 'in sight' area of the transmitter.



Be sure to remain within the effective range of the infrared rays while viewing the TV. However, should you use the headphones at too great a distance, from the transmitter, the audio signal will become weak and you may experience a hissing noise.

Note: These phenomena are inherent to infrared-ray communication and do not mean that there is a problem with the unit itself.

General transmitter information

Carrier frequency: Right 2.8 MHz Left 2.3 MHz	Right 2.8 MHz Left 2.3 MHz	Frequency response: 18-22,000 Hz	18-22,000 Hz
Effective range:	Effective range: Up to 8m approx.	Distortion: Less than 1% at 1 KHz	1% at 1 KHz

Note: This appliance conforms with EEC directive 87/308/EEC regarding interference suppression.

1-6. TELETEXT OPERATION

TV stations broadcast teletext programmes via the TV channels. To receive teletext programmes, use the buttons indicated in green on the full side of the Remote Commander.

With the simple side of the Remote Commander, only the basic operation is possible.

How to View the Teletex If the teletext signal is not broadcast, then p100 is displayed. The channel changes on the screen. The numbers are entered on the screen. The requested page will appear in a few seconds. INDEX Result Select the channel which carries the teletext service you wish to see. Input three digits for the page number using the number buttons. If you make a mistake, type in any three digits, then re-enter the correct page number. To return to the TV mode. Press (). Press 🖲. Action 2

To change the teletext channels First press \Box to return to the TV mode, then repeat steps 1 to 3.

Note If the signal of the TV channel is weak, teletext errors may often occur

How to	Action	Result
Superimpose the teletext display on the TV programme.	Press ® once if you are in text mode, or press ® twice if in TV mode. To return to the normal teletext display press ® again.	The teletext displays are superimposed on the TV
Prevent a teletext page from being updated or changed.	Press & (HOLD). To resume normal teletext reception, press © (TEXT/MIX).	The HOLD symbol (#8) appears on the screen and the chosen sub-page is held until you cancel.
Eniarge the teletext display.	Press & once to enlarge the upper half. Press twice to enlarge the lower half. Press again to restore the normal display.	The upper half is enlarged.
Reveal concealed information (e.g. answers to a quiz).	Press ® (REVEAL). Press again to conceal the information.	The information is revealed.
Watch the TV programme while waiting for a requested page to be	1. Request a new page.	The numbers are entered.
displayed.	2. Press & (TEXT CL).	The TV program is displayed, and the requested page number and other teletext data appear at the top of the screen.
	3. When the requested page has been captured, the page number remains and the other data disappears.	P201
	4. Press to view this page.	The requested page is displayed.

Some of the features may not be available depending on the Teletext service.

3500	
100	
13	
1	
E E	- 1
2.5	١.
820	- 1
re _a	
0.3	
62976. 12	
6.44	
196	
100	
100	
100	
1 7 7.4	1
t.	
. <u> </u>	
	1
6	
g	ı
2	
* 1	1
:5	
: 8	<u> </u>
- E	
. 6	
< ₹	
2	
, c.	
5	
-	
How to Use the Advanced Features of Telefext	
	•

How to	Action	Result (On-screen display)
Request the index page.	Press @ (INDEX).	The index page appears.
Request the subtitle page (p888).	Press O.	The subtitle page is displayed (p888).
Access the next or preceding page.	Press @ (PAGE +) or @ (PAGE -).	P201 The next or preceding page appears.

1-7. ADDITIONAL INFORMATION

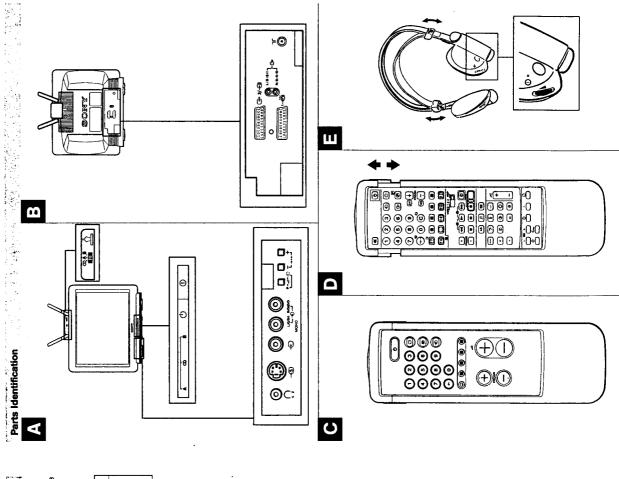


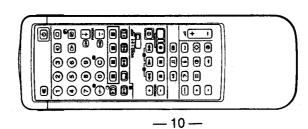
Operation

Press one of the coloured buttons which corresponds to the coloured prompt on the teletext.

Note Correct FASTEXT operation depends on the necessary signals sent from the TV station.

Summary Note
A brief explanation of all TV and Commander functions can be referred to on page 21.





D Remote Commander – full function side This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

Refer to page

10

Mute on/off button Name

Standby button Number buttons 18

Input mode selector

o

4 C

Teletext button

Music button Selector for NICAM

8

TV power on/TV mode selector button Output mode selector

Ξ

Double-digit entering button

Direct channel

each description.				
A TV set - Front	ront		Sign	
Sign	Name	Refer to page	ኞ	
Θ	Main power switch	4	Ð	
Đ	Standby indicator	4	1,2,3,4,5,	
AB	NICAM	10, 11	6,7,8,9 and 0	
C:	Headphones jack (stereo minijack)	17	0	
Ф Ф	Input jacks (S-video/ video/audio)	17	Ф	
(Function selector		(h)	
	(Programme/ volume/input)	9, 18	C,	-
+	Adjustment		A/B	
1	function selector	, n	/-	
c	ransmitter power switch	12	O	
O- A-B	Audio mode selector	12	8	
: TV set ~ Rear	ear		8	_
			<u></u>	

)			
3 TV set ~ Rear	ear		
Sign	Name	Refer to page	1-
	21-pin Euro-AV		9(2)
(A)/C	connector (S-	,	1
) i)	video/video input,	=	
	TV/video output)		
	21-pin Euro-AV		
16	connector (RGB/	- +	
) -	video input, TV	=	
	output		
đ	Audio output jacks	ŗ	<u> </u>
5	(phono jacks)	-	<u> </u>
Ļ	Aerial terminal	c	
=	(IEC type)	9	92
S. Carrier	Lie de la companya de	1. 2.4.	-1_

	ЛГ	Aerial terminat (IEC type)	8
ပ	Remote Co	Remote Commander - simple side	le side
	Sign	Мате	Refer to page
	φ	Input mode selector	18

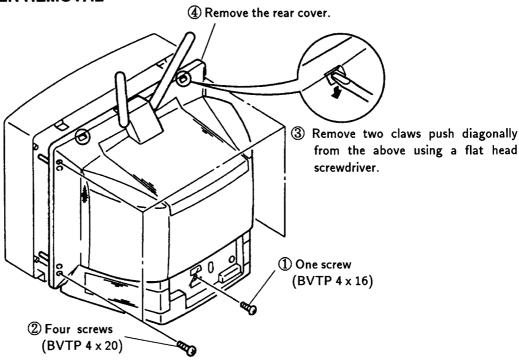
Remote Co	Remote Commander - simple side	e side
Sign	Мате	Refer to page
φ	Input mode seiector	18
10	Teletext button	14
	Fastext buttons	16
o	TV mode selector	4
Đ	Standby button	4
1,2,3,4,5, 6,7,8,9, and 0	Number buttons	6
/	Double-digit entering button	6
-/+ V	Volume control button	6
PROGR +/-	Programme selector	6

	<u>ာ</u>	antering button	, ' 6, '
2	8	Special brings	ç
	B	nomno punos apade	2
	0	Request time display	10
o page	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Teletext operation buttons	14, 15
7		Fastext buttons	16
	Ð	On-screen display button	10
	*	Picture and sound adjustment reset button	10
7	-/ - /-	Volume control	o
	PROGR +/-	Programme selector	6
	0 0 0 N 3 & +/-	Picture and sound controls	10
o page	VIDEO 1/2/3, MDP	Video equipment selector	19
	444	Video equipment operation buttons	19
4	Coo	Programme number clear button	8
9 _	↔	Channel preset button	5 8
	+	Tuning buttons	5
	\Q	Channel store button	5 8
	0	Station label button	7
_			

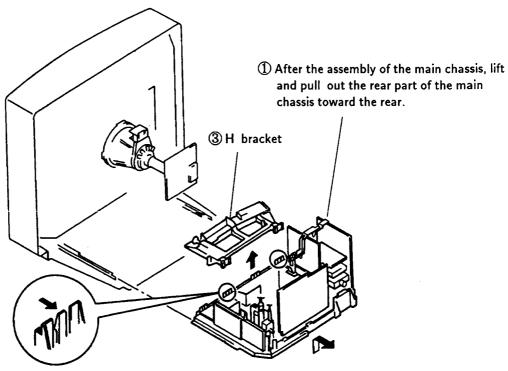
VIDEO 1/2/3, MDP	selector	19
4. 4. 4. 4. 4. 4. 4.	Video equipment operation buttons	19
Coo	Programme number clear button	8
ዯ	Channel preset button	5 8
+ 4+	Tuning buttons	အ
\ \	Channel store button	5 8
0	Station label button	7
Headphones	68	
Sign	Name	Refer to page
Θ	Power switch	12
7	Volume control	12

SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

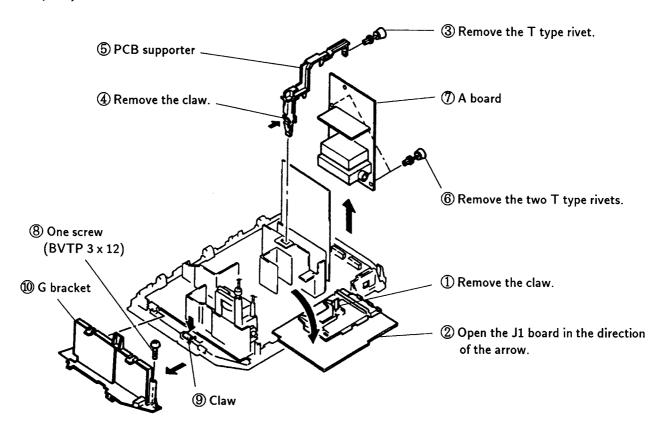


2-2. CHASSIS ASSEMBLY REMOVAL



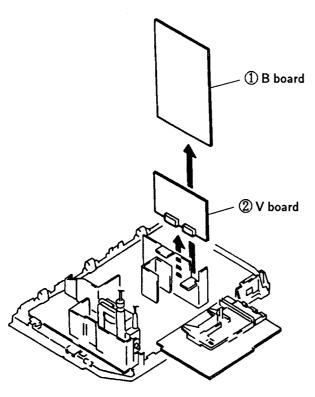
② Push the two claws of the main chassis in the direction of the arrow and remove the H bracket upwards.

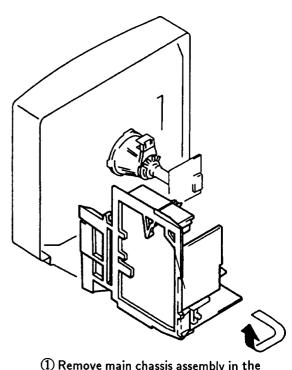
2-3. A, A1, J1 BOARDS AND G BRACKET REMOVAL



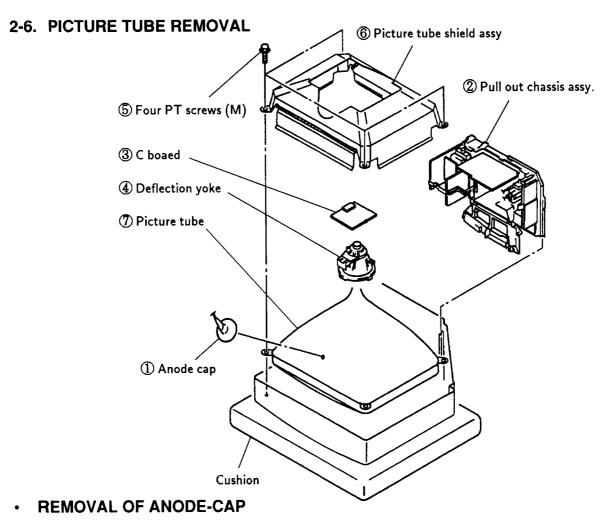
2-4. B AND V BOARDS REMOVAL

2-5. SERVICE POSITION



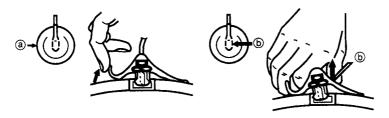


(1) Remove main chassis assembly in the direction of the arrow.



Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

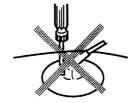
REMOVING PROCEDURES



- 1 Turn up one side of the rubber cap in the direction indicated by the arrow a.
- 2 Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).

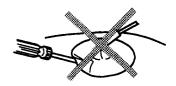
HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
 - A metal fitting called as shatter-hook terminal is built in the rubber.
- 3 Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.



When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of arrow ©.

Anode button



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way:

① Contrast80%

(or remote control normal)

Brightness50%

- Carry out the following adjustments in this order:
 - 1. Beam landing
 - 2. Convergence
 - 3. Focus
 - 4. White balance

Note: Testing equipment required

- 1. Color bar/pattern generator
- 2. Degausser
- 3. DC power supply
- 4. Digital multimeter
- 5. Oscilloscope

Preparations:

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

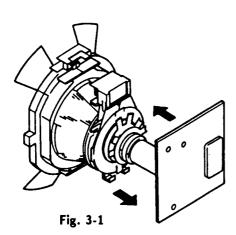
- 1. Input the white signal with the pattern generator.

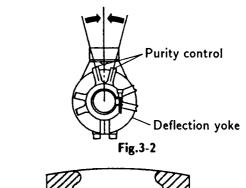
 Contrast
 Bightness normal
- 2. Position neck ass'y as shown in Fig 3-2.
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.

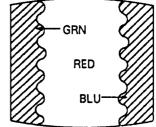
(See Figures 3-1 through 3-3.)

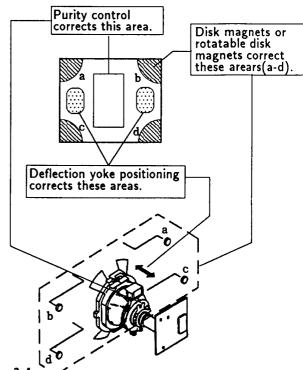
- 5. Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-1.)
- 6. Switch the raster signal to blue, then to green and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 8. If the beam does not land correctly in all the corners, use a magnet to adjust it.

 (See Figure 3-4.)









-- 15 -- Fig. 3-4

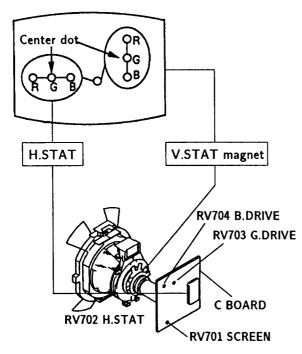
Fig. 3-3

3-2. CONVERGENCE

Preparations:

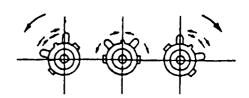
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and vertical static convergence

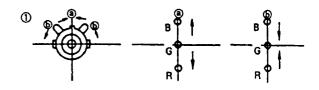


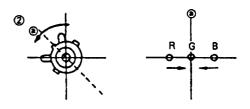
- 1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
- 2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
- 3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
 (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

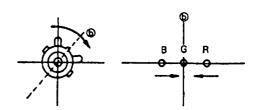
• Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

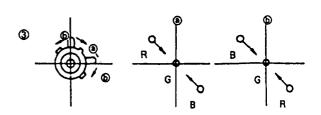


4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.

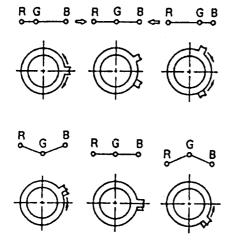






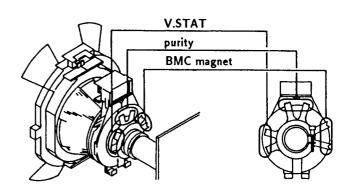


• Operation of BMC (Hexapole) Magnet



 The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.

Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

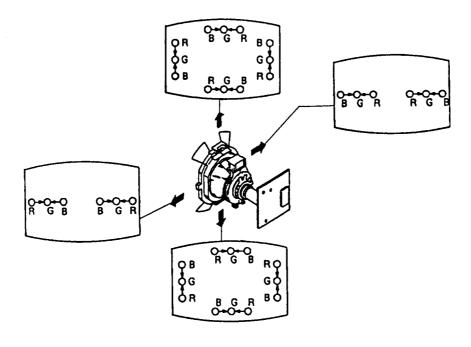


(2) Dynamic Convergence Adjustment Preparations:

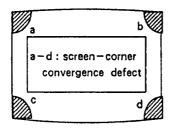
Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.

- 3. Move the deflection yoke as shown in the figure below and optimize the convergence.
- 4. Tighten the deflection yoke screws.
- 5. Install the defelection yoke spacer.



(3) Screen corner convergence



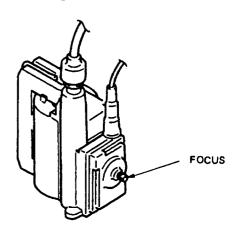


Install the permalloy assembly for the section with faulty.

Permalloy

3-3. FOCUS

Adjust the focus to optimize the screen.



3-4. WHITE BALANCE

[Screen G2 setting]

- . Input the dot signal from the pattern generator.
- 2. Set the picture brightness control to its lowest level.
- 3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
- 4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

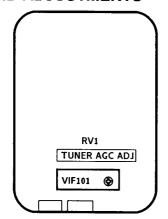
[White balance adjustment]

- 1. Input an all-white signal from the pattern generator.
- 2. Set the picture brightness and color controls to their normal levels.
- 3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS

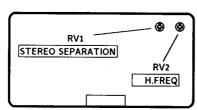


A BOARD (COMPONENT SIDE)

TUNER AGC ADJUSTMENT (AGC VR)

- 1. Align with an appropriate signal between stations.
- 2. Adjust AGC VR so that snow noise and cross modulation just disappear from the picture.

IFG5.5S SIF



IFG5.5S SIF -component side-

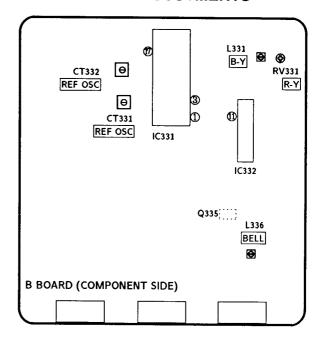
STEREO SEPALATION ADJUSTMENT (RV1)

- 1. Input stereo signals. (L-CH 400Hz, R-CH 1KHz)
- 2. Check the stereo indicator.
- 3. Connect on oscilloscope to pin® (CH1) of CN1 through band pass filter of 1KHz
- 4. Adjust RV1 so that 1KHz voltage goes down to the minmum.

H FREQ (RV2)

- Input a PAL COLOR BAR signal, then connect a jumper between pin IC4 and GND.
- Connect a frequency counter to pin (IFG5.5S)
 (HP) of CN1 through a probe of 10:1.
- 3. Adjust RV2 (H.FREQ) 15.625 ± 50 Hz.
- 4. After adjustment, remove the jamper.

4-2. B BOARD ADJUSTMENTS



REFERENCE OSCILLATOR ADJUSTMENT (CT332 8.8MHz)

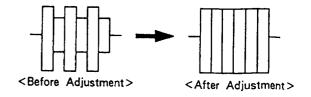
- 1. Input a PAL color bar signal.
- 2. Ground pin n of the IC331.
- 3. Adjust CT332 to obtain synchronization.

REFERENCE OSCILLATOR ADJUSTMENT (CT331 7.16MHz)

- 1. Input an NTSC color bar signal.
- 2. Ground pin (7) of IC331.
- 3. Adjust the CT331 to obtain synchronization.
- 4. Remove the jumper grounding pin ® of IC331.

BELL FILTER ADJUSTMENT (L336)

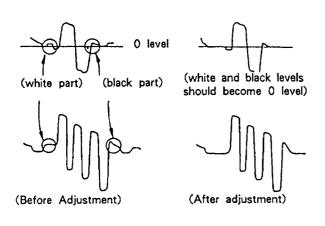
- Input a SECAM color bar signal.
- 2. Connect the oscilloscope to the emitter of Q335.
- 3. Adjust L336 so that the waveform is flat.



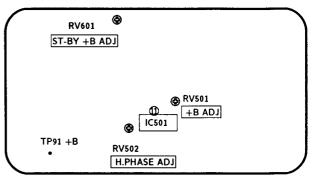
DISCRIMINATION ADJUSTMENTS (RV331 and L331)

- 1. Input a SECAM color bar signal.
- 2. Connect the oscilloscope to pin ① of IC331.
- 3. Adjust RV331 until the white and black sections of the waveform at pin ① are at the 0 level.

 Connect the oscilloscope to pin ③ of IC331.
- 4. Adjust L331 until the white and black sections of
- 5. the waveform at pin 3 are at the 0 level.



4-3. D BOARD ADJUSTMENTS



D BOARD (COMPONENT SIDE)

+B ADJUSTMENT (RV501)

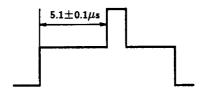
- . Connect the digital multimeter to TP91.
- 2. Adjust RV501 to obtain 135 ± 0.2 V.

ST-BY +B ADJUSTMENT (RV601)

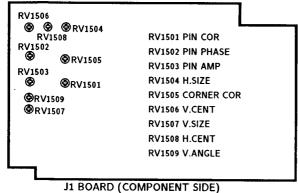
- 1. Put the system into \circlearrowleft standby mode (remote commander).
- 2. Connect the digital multimeter to TP91.
- 3. Adjust RV601 to obtain $135\pm3V$.
- 4. Take the system out of \circlearrowleft standby mode (remote commander).

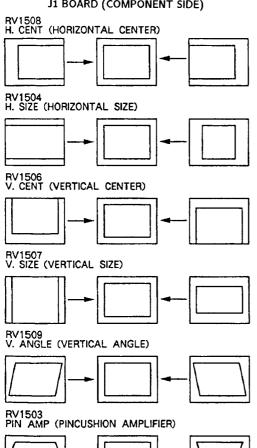
H.PHASE ADJUSTMENT (RV502)

- 1. Input a PAL color bar signal.
- 2. Set the picture and brightness controls to their normal levels.
- 3. Set RV1508 (H.CENT) to its mechanical center.
- 4. Connect the oscilloscope to pin (SCP) of IC 501.
- 5. Rotate RV502 to adjust to $5.1 \pm 0.1 \mu s$.

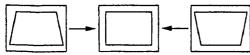


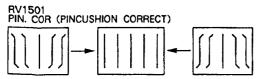
4-4. J1 BOARD ADJUSTMENTS

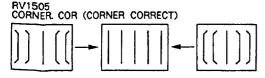




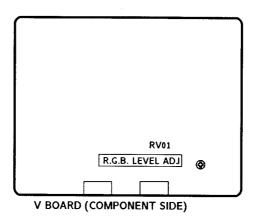
RV1502 PIN PHASE (PINCUSHION PHASE)







4-5. V BOARD ADJUSTMENT



RGB LEVEL ADJUSTMENT (RV01)

- 1. Maximize the picture setting.
- 2. Adjust RV01 so that the RGB output is 0.75V.

4-6. SECONDARY ADJUSTMENTS

SUB BRIGHTNESS ADJUSTMENT

- 1. Set the system to receive a test pattern.
- Press → ← on the remote commander to put the system into normal mode.
- 3. Switch off the power.
- While depressing the adjusting buttons + and
 simultaneously, turn on the power. (SUB mode is obtained)
- 5. Minimize the O contrast setting.
- 6. Adjust the \$\footnote{\text{the}}\$ brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
- 7. Depress the \diamondsuit (store) button of the remote commander.

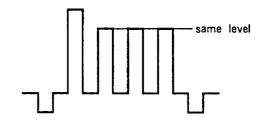
(SUB mode is released)

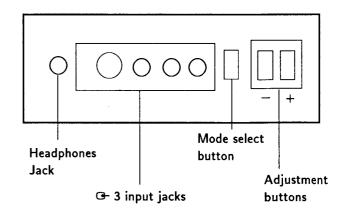
If there is no test color pattern

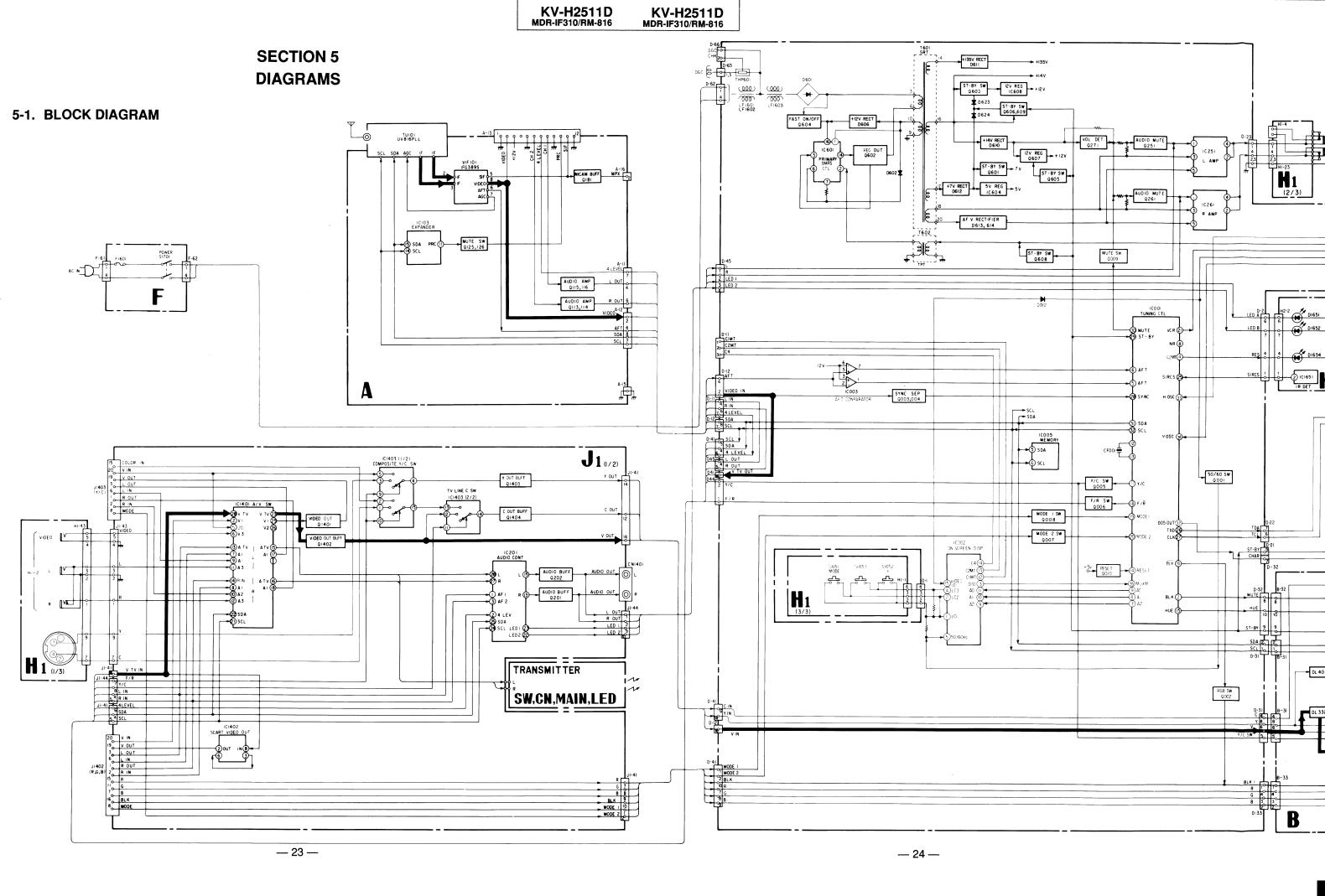
- 1. Set the system to receive a color pattern.
- Press → ← on the remote commander to put the system into normal mode.
 Set the ② color to its normal state.
- 3-5. Steps are the same as above.
- 6. Since 20 IRE is nearly blue, adjust the \\$\text{\text{the}}\$ brightness control so that the blue barely glows.
- 7. Same as step 7 above.
- Press → ← on the remote commander to put the system into normal mode.

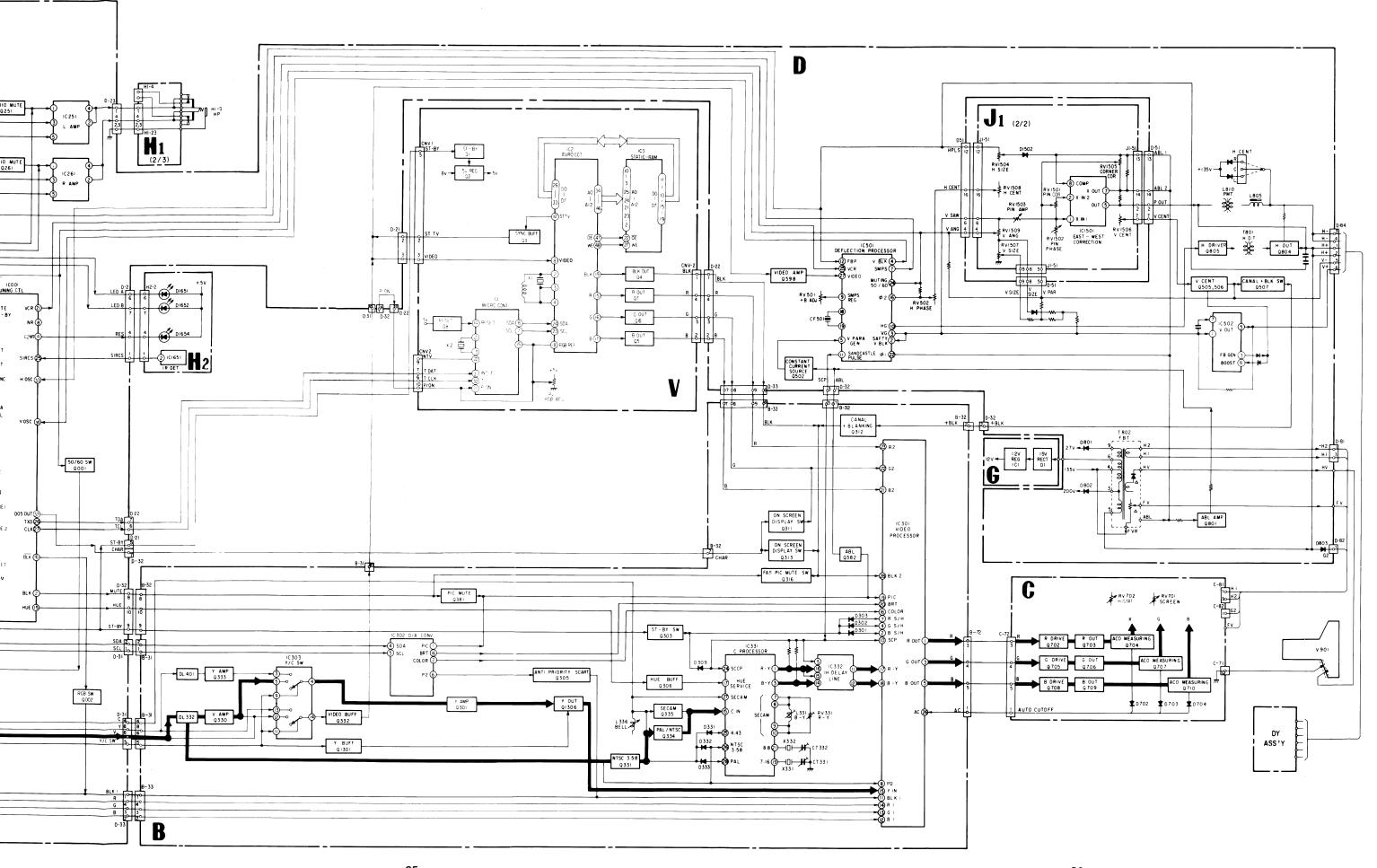
SUB COLOR ADJUSTMENT

- 1. Set the system to receive color bars.
- Press → ← on the remote commander to put the system into normal mode.
- 3. Cut off the power.
- 4. While depressing the adjustment buttons + and simultaneusly, turn on the power. (SUB mode is obtained).
- 5. Adjust the color control so that the B out waveform (pin 5 of C board connector CNC72) is as shown in the figure below.
- 6. Depress the \diamondsuit (store) button of the remote commander. (SUB mode is released)







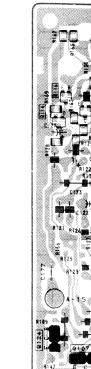


[CONTROL SW, AV INPUT,] HEADPHONE

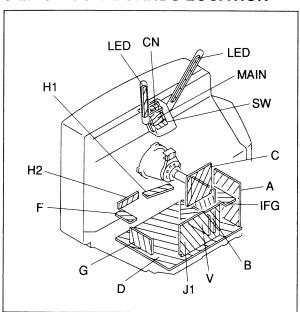
H2 [SIRCS RECEIVER, INDICATOR]

[AC IN, POWER SW]

- A Board -



5-2. CIRCUIT BOARDS LOCATION



Components identified by shading and marked $oldsymbol{\Lambda}$ are critical for safety. Replace only with the part number specified.

5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- All capacitors are in μF unless otherwise stated (p=pF). Working voltage of 50V or less are not indicated, except for electrolytics.
- · Resistors which do not hane a power rating value shown are as follows.

Pitch: 5 mm Power rating: 1/4W

Chip resistors are 1/10W.

- All resistor values are in Ohms. $k\Omega=1000\Omega$, $M\Omega$ =1000 $k\Omega$.
- m: nonflammable resistor.
- w-~: fusible resistor.
- ___: panel outline or servicing adjustment.
- · All variable and adjustable resistors have characteristic curve B. unless otherwise noted.
- · All voltages shown are in Volts.
- Readings were taken with a 10 $M\Omega$ digital multimeter.
- · Readings were taken with a colour-bar signal input.
- · Voltage variations may be occur to normal production tolerance.
- : Voltage supply rails.
- Signal path.

Reference information

METAL FILM RESISTOR : RN : RC SOLID

: FPRD NON-FLAMMABLE CARBON : FUSE NON-FLAMMABLE FUSIBLE : RS NON-FLAMMABLE METALOXIDE : RB NON-FLAMMABLE CEMENT

NON-FLAMMABLE : RW WIREWOUND

VARIABLE RESISTOR : **※** COIL : LF-8L MINIATURE INDUCTOR

CAPACITOR: TA **TANTALUM** : PS STYROL

: PP POLYPROPYLENE

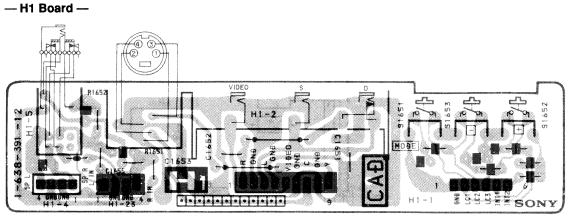
:PT **MYLAR**

: MPS METALIZED POLYESTER : MPP METALIZED POLYPROPYLENE

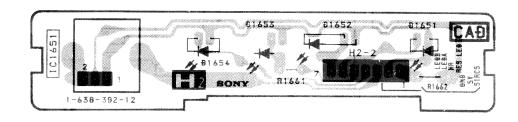
: ALB **BIPOLAR**

: ALT HIGH TEMPERATURE

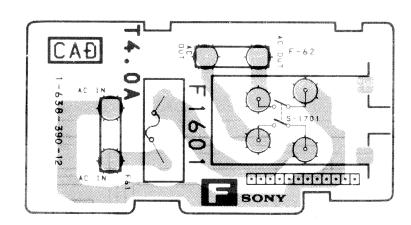
HIGH RIPPLE : ALR

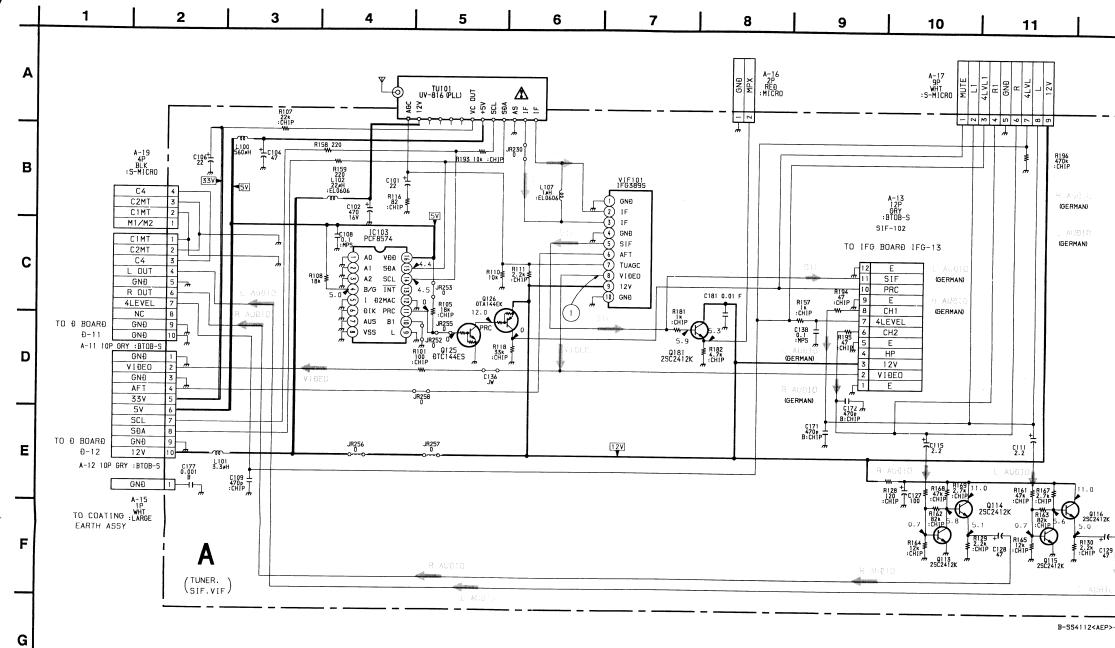


- H2 Board -



- F Board -

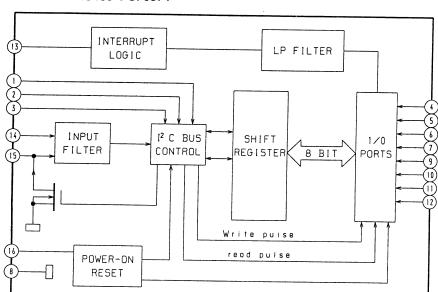


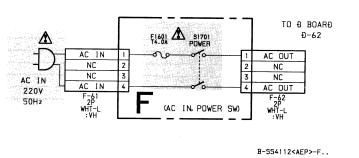


— A Board —

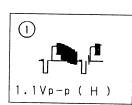
IC103	PCF8574	EXPANDER
Q113	2SC2412K	AUÐIO AMP
Q114	25C2412K	AMA OIGUA
0115	25C2412K	AMP OIGUA
Q116	25C2412K	AMA OIGUA
Q125	ĐTC144ES	MUTE SW
Q126	ĐTA144EK	MUTE SW
Q181	25C2412K	NICAM BUEEED

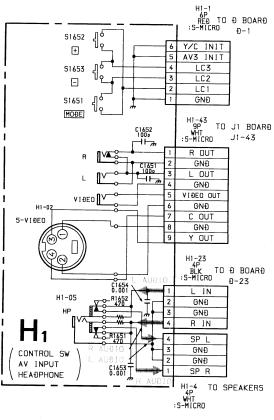
A BOARD IC103 PCF8574



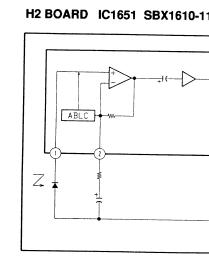


- A Board -





B-SS4111<UK.>-H1



— H2 Board —

IC1651	SBX1610-11	INFRAREÐ RECIVER
Ð1651	LÐ-201VR	AUDIO CHANNEL A INDICATOR
Ð1652	LÐ-201VR	AUDIO CHANNEL B INDICATOR
Ð1654	LÐ-201VR	RESET INDICATOR

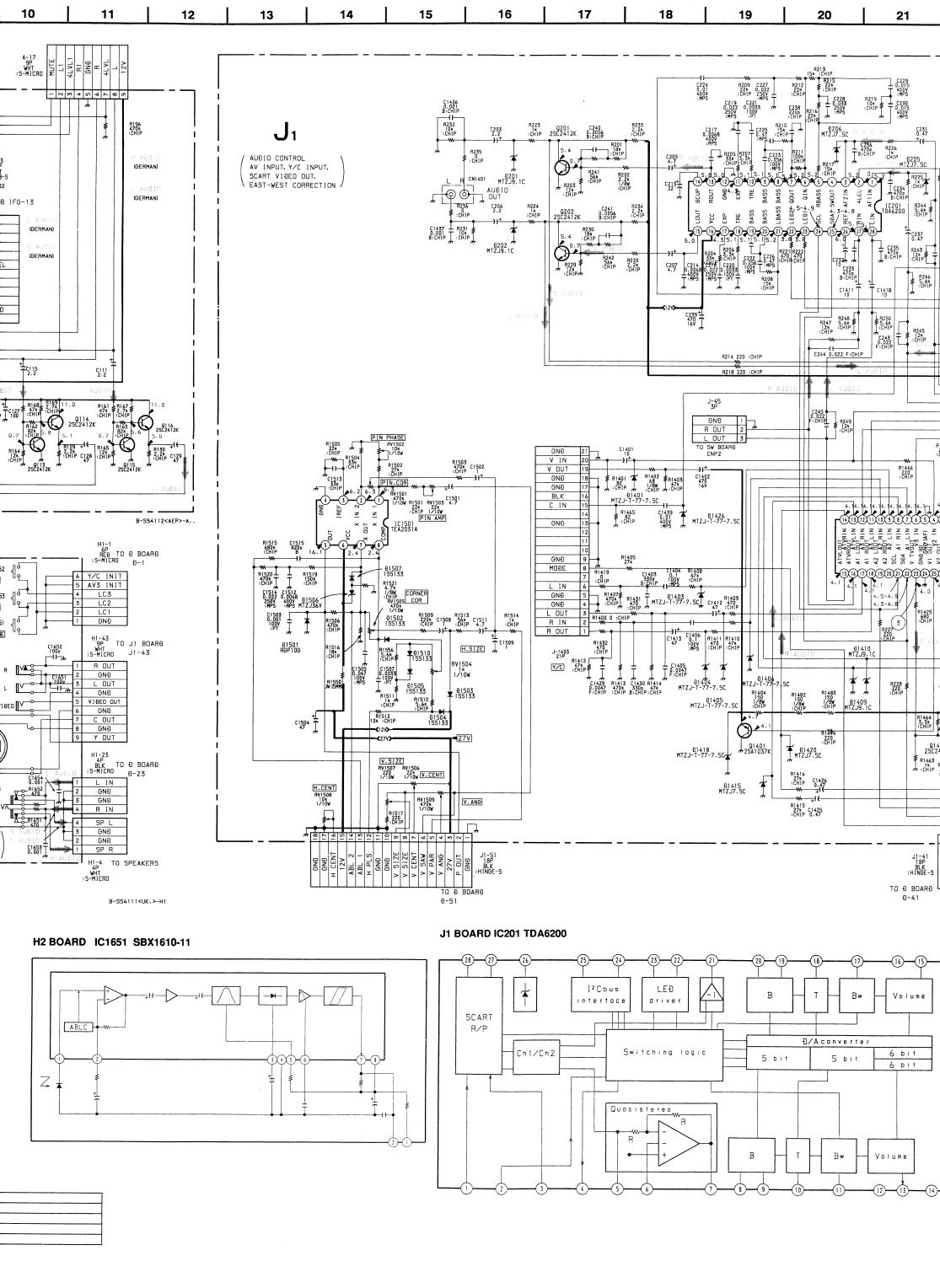
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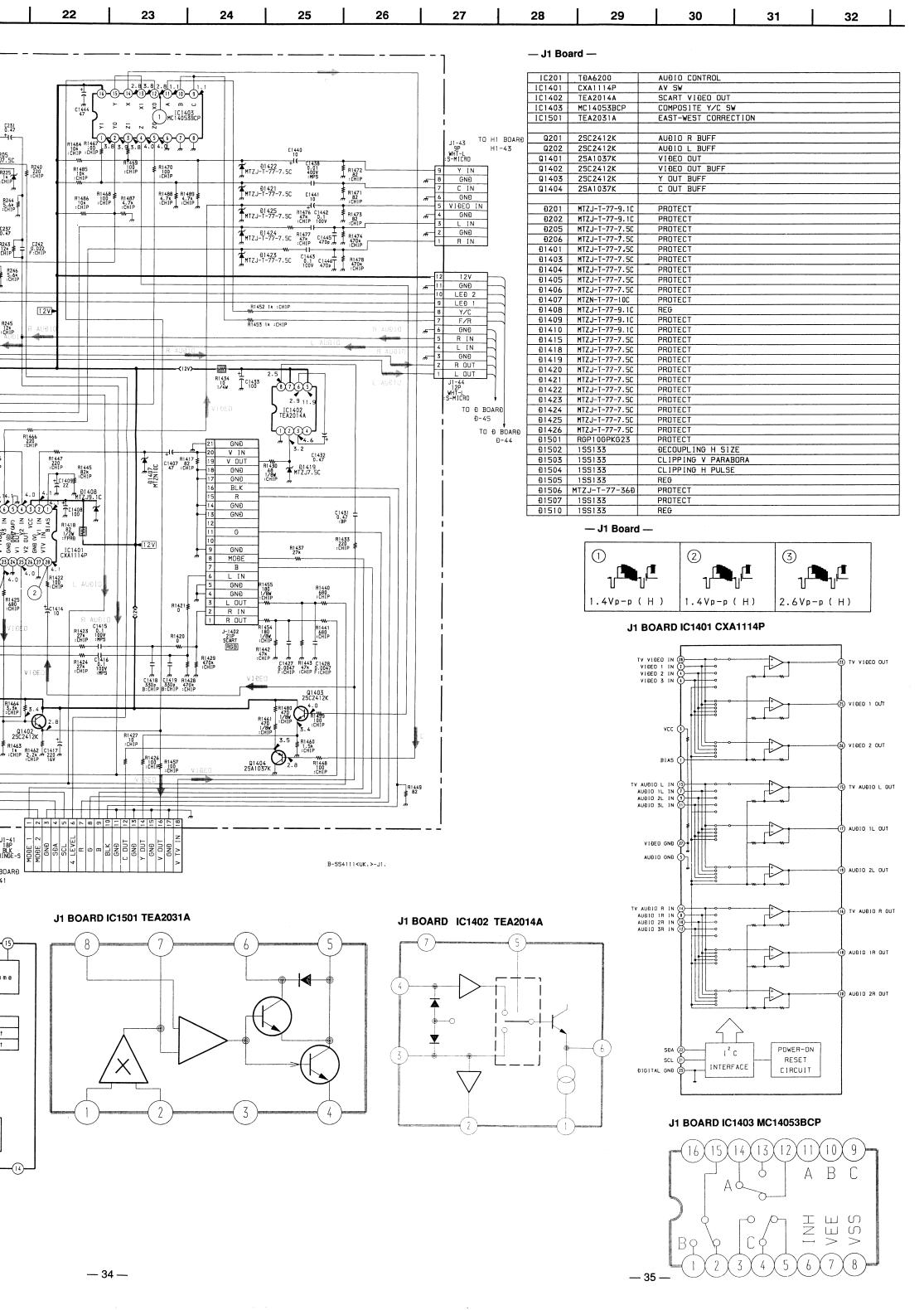
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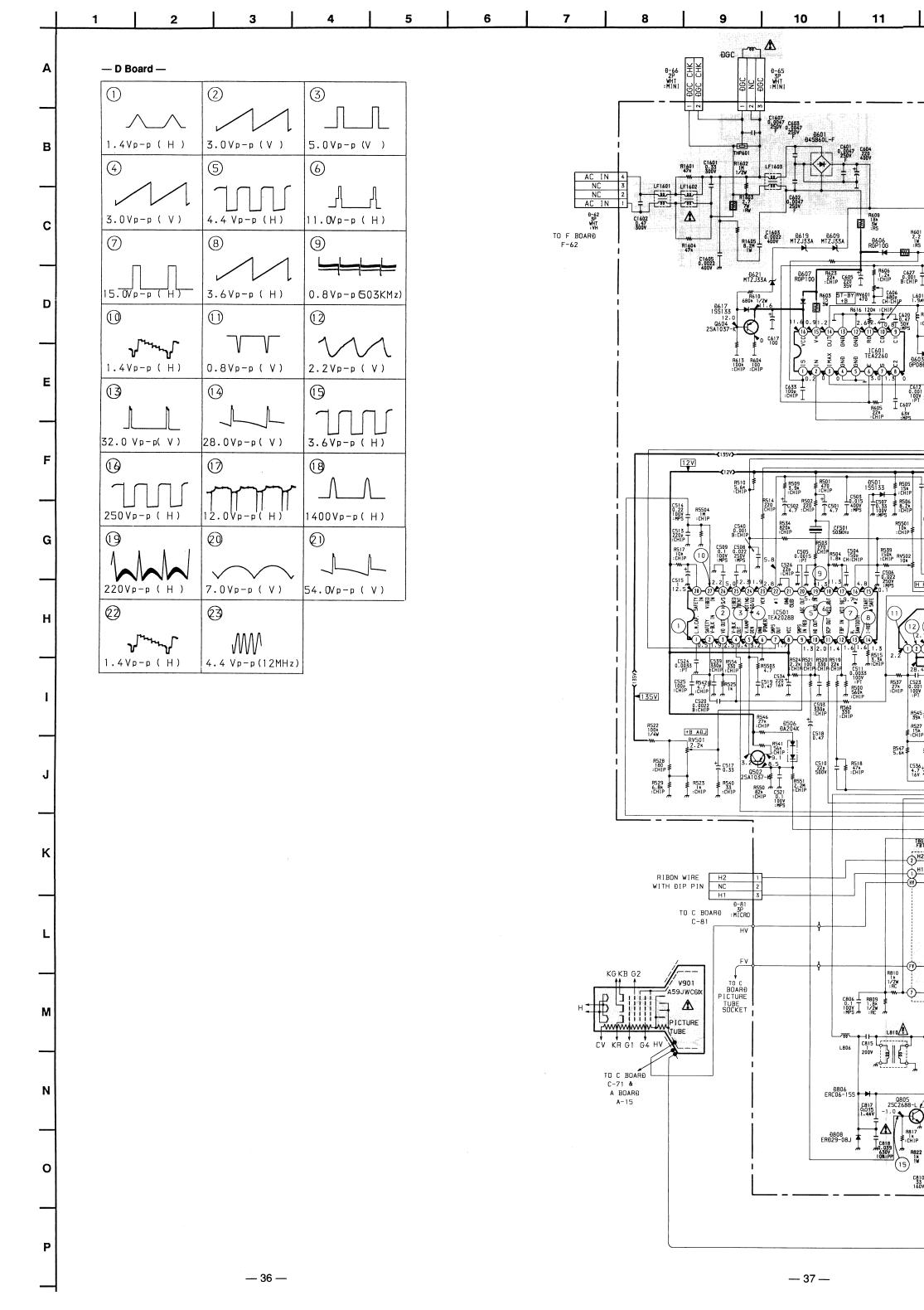
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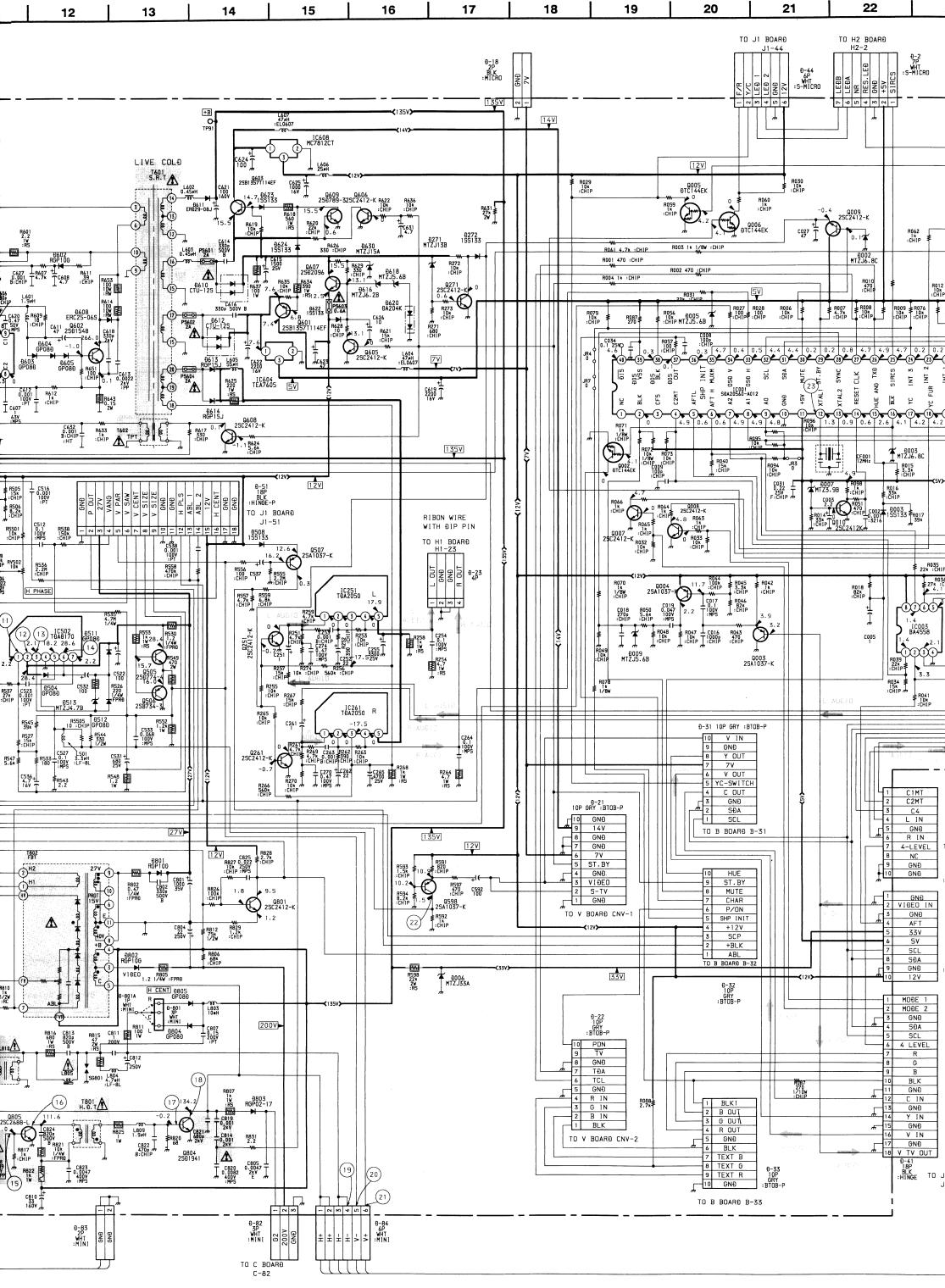
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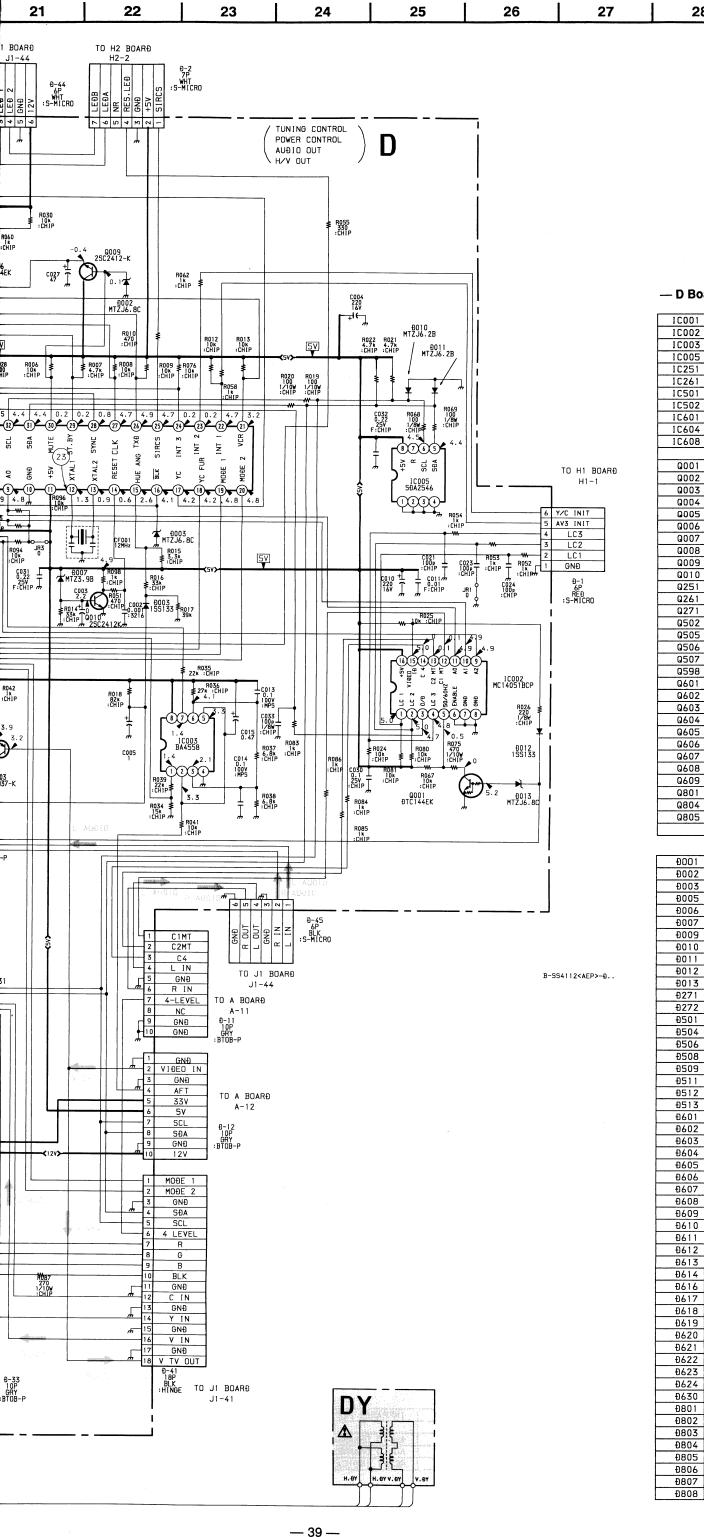
P











— D Bo		
10001	SĐA20560	TUNING CTL
1C002 1C003	MC14051BCP BA4558	ON SCREEN ĐISPLAY AFT COMPARATOR
10005	SĐA2546	MY MEMORY
IC251	TĐA2050	AUÐIO OUT (L)
10261	TĐA2050	AUÐIO OUT (R)
IC501 IC502	TEA2028B TĐA8170	ĐEFLECTION PROCESSOR V OUT
10601	TEA2260	PRIMARY SMRS CTL
IC604	TEA7605	+5V REG
10608	MC7812CT	+12V REG
Q001	ĐTC144EK	50/60Hz SW
Q002	ÐTA144EK	BLK SW
Q003	25A1037K	SYNC SEPARATOR
Q004 Q005	25A1037K DTC144EK	SYNC SEPARATOR Y/C SW
0006	ĐTC144EK	FRONT/REAR SW
Q007	25C2412K	MOĐE 2 SWITCH
800 <i>0</i>	25C2412K 25C2412K	MOĐE 1 SWITCH MUTE SW
Q010	25C2412K	RESET
Q251	25C2412K	AUÐ10 MUTE
Q261	25C2412K	AUÐI O MUTE
Q271 Q502	25C2412K 25A1037K	VOLTAGE DETECT CONSTANT CURRENT SOURCE
Q505	2SÐ774	V CENT
Q506	25B734	V CENT
Q507 Q598	25A1037K 25A1037K	CANAL +BLK VIĐEO AMP
Q601	25B1357T114EF	STBY SW
Q602	25Ð1548	REG OUT
Q603	25B1357T114EF	STBY SW
Q604 Q605	25A1037K 25C2412K	FAST ON/OFF STBY SW
Q606	25C2412K	STBY SW
Q607	2SÐ2096-EF	+12V REG
Q608 Q609	25C2412K 25Đ789-3	STBY SW STBY SW
Q801	25C2412K	ABL AMP
Q804	2SÐ1941	H OUT
Q805	25C2688	H ÐRÍVER
Đ001	MTZJ6.8C	PROTECT
Đ002	MTZJ6.8C	PROTECT
Đ003	155133	HUE CTL
Đ005 Đ006	MTZJ5.6B MTZJ33A	PROTECT VC VOLTAGE REGULATION
Đ007	MTZJ3.9B	PROTECT RESET
Đ009	MTZJ5.6B	CLIPPING SYNC LEVEL
Đ010 Đ011	MTZJ6.2B MTZJ6.2B	PROTECT PROTECT
Đ012	155133	PROTECT
Đ013	MTZJ6.8C	PROTECT
Ð271 Ð272	MTZJ13B 1SS133	VOLTAGE DETECT DECOUPING MUTE AUDIO
Ð501	155133	SOFT START
Ð504	GP08ĐPKG23	V PULSE OUT
Ð506 Ð508	ĐA204K 155133	CURRENT REG CANAL +BLK LEVEL
Ð509	155133	V LIN
Ð511	GP08ĐPKG23	PROTECT
Ð512	GP08ĐPKG23	PROTECT
Ð513 Ð601	MTZJ4.7B Đ4SB60L-F	PROTECT AC RECT
Ð602	RGP10GPKG23	REF RECT
Ð603	GP08DPKG23	SMPS DRIVE 1
Ð604 Ð605	GP08ĐPKG23 GP08ĐPKG23	SMPS DRIVE 2 SMPS DRIVE 3
9609	RGP10GPKG23	+12V RECT
Ð607	RGP10GPKG23	REF RECT
£080	ERC25-06S	PLUSE CLIPPER FAST ON/OFF
Ð610	MTZJ33A CTU-12S	+14V RECT
Ð611	ERÐ29-08J	+135V RECT
Đ612 Đ613	CTU-12S RGP15J-6040G23	+7V RECT
	RGP15J-6040G23	AF V RECT-1 AF V RECT-2
Ð616	MTZJ6.2B	+12V REG
Ð617	155133	PROTECT
Ð618 Ð619	MTZJ5.6B MTZJ33A	+12V REF FAST ON/OFF-2
Ð620	ĐA204K	+12V REF
Ð621	MTZJ33A	FAST ON/OFF-3
Ð622 Ð623	155133 155133	PROTECT DECOUPING STBY
Ð623	155133	DECOUPING STBY
Ð630	MTZJ15A	+12V RECT
Ð801	RGP10GPKG23	+27V RECT
Đ802 Đ803	RGP10GPKG23 RGP02-17PKG23	+200V RECT G2 RECT
Ð804	GP08ĐPKG23	H CENTER-1
Đ805	GP08ĐPKG23	H CENTER-2
Đ806 Đ807	ERC06-15S ERC06-15C	H ĐAMPER-1 H ĐAMPER-2

ERÐ28-085

H ĐAMPER-2

PIN ĐAMPER

28

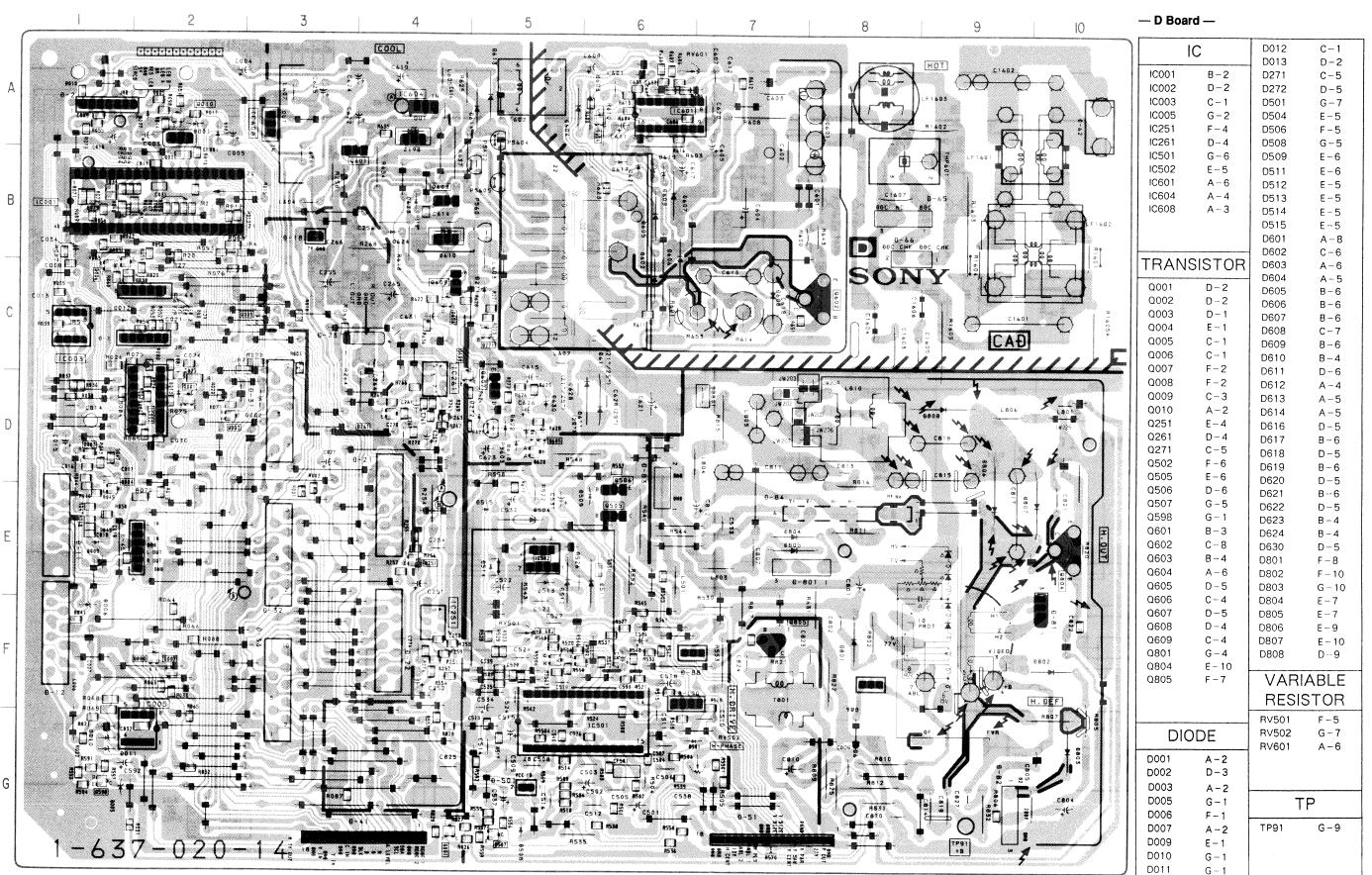
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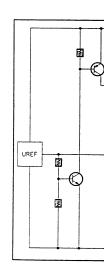
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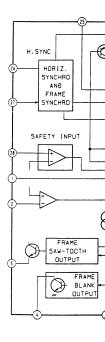
— D Board —



D BOARD IC25



D BOARD IC50

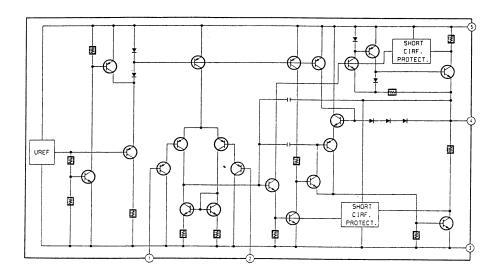




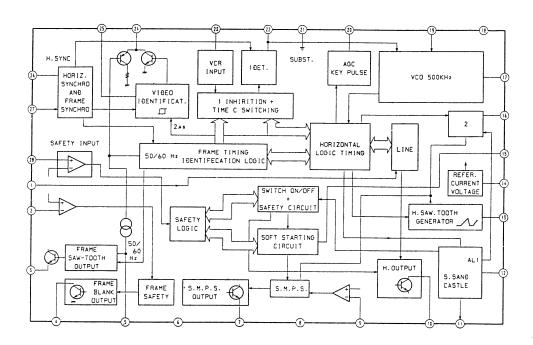
-6 -5 -5

- 5

D BOARD IC251, IC261 TDA2050



D BOARD IC501 TEA2028B

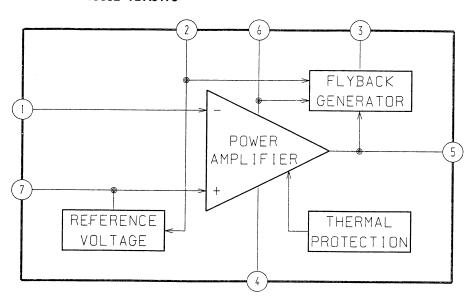




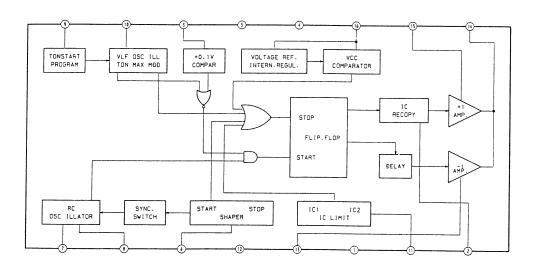
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

D BOARD IC502 TDA8170

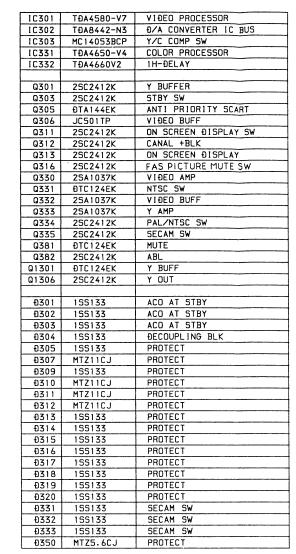


D BOARD IC601 TEA2260

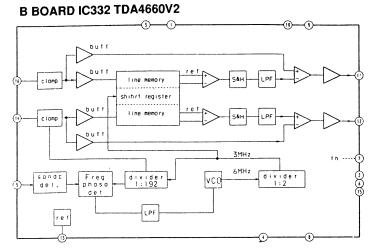


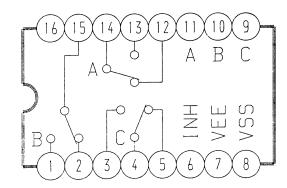
— B Board —

- B Board -

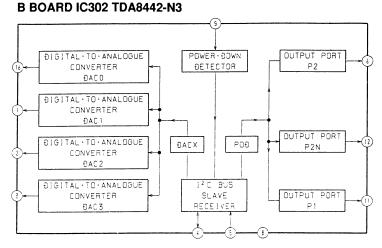


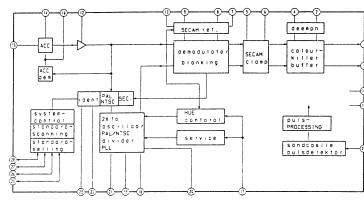
B BOARD IC303 MC14053BCP



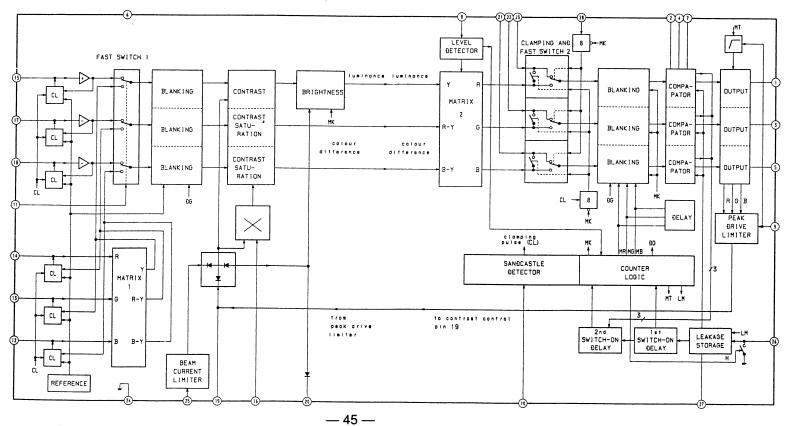


B BOARD IC331 TDA4650





B BOARD IC301 TDA4580-V7



		(2)
_խՎխՎի		
		السم وسرا
PAL. SECAM	NTSC 3.58/4.43	PAL, SECAM
4.8Vp-p (H)	4.8 Vp-p(H)	4.8 Vp-p (H)
2	(3)	(3)
1 2 pt 1	ով խող խող խո	क्येंप क्येंप
		1 4 11 4 1
NTSC 3.58/4.43	PAL, SECAM 4.8Vp-p (H)	NTSC 3.58/4.43 4.8Vp-p (H)
(4)	(5)	(5)
	م کسمسمل	ا کالیمیمیک ک
	PAL	SECAM
1 Vp-p (H)	0.4Vp-p (H)	0.36 Vp-p(H)
(5)	6	6
 	Γ. Υ. Υ.	
-\ J-1-72- \		41-41
NTSC 3.58/4.43	PAL. SECAM	NTSC 3.58/4.43
0.46Vp-p(H)	0.9Vp-p (H)	0.7Vp-p (H)
10		8
		2/-1/-1/-
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
PAL. SECAM 1.1 Vp = p (H)	NTSC 3.58/4.43 1 Vp-p (H)	PAL 0.5Vp-p(H)
(8)	8	9
	lan Annan Ann	
J-1 [L1 L1 L-	l HallAnHallAnl	
SECAM	NTSC 3.58/4.43	PAL
1.1 Vp-p (H)	0.4Vp-p (H)	0.6Vp-p (H)
9	9 _ n	(1)
9		
9		
9 	9 MMMM NISC 3.58/4.43 0.6 Vp-p(H)	SECAM
9 —My My My SECAM	9 MMMMM NTSC 3.58/4.43 0.6 Vp-p(H)	SECAM
9	9 MMMM NISC 3.58/4.43 0.6 Vp-p(H)	SECAM
9	9 MISC 3.58/4.43 0.6 Vp-p(H)	SECAM 1.4 Vp-p (H) SECAM
9	9 NISC 3.58/4.43 0.6 Vp-p(H) 12 PAL 0.2 Vp-p(H)	SECAM 1.4 Vp-p (H) SECAM 0.12Vp-p (H)
9	9 NISC 3.58/4.43 0.6 Vp-p(H) (2) PAL 0.2 Vp-p(H)	SECAM 1.4 Vp-p (H) SECAM
9	9 NISC 3.58/4.43 0.6 Vp-p(H) 12 PAL 0.2 Vp-p(H)	SECAM 1.4 Vp-p (H) SECAM 0.12Vp-p (H)
9	9 NISC 3.58/4.43 0.6 Vp-p(H) (2) PAL 0.2 Vp-p(H)	SECAM 0.12Vp-p (H) SECAM 0.12Vp-p (H)
9	9 NTSC 3.58/4.43 0.6 Vp-p(H) 12 PAL 0.2 Vp-p(H)	SECAM 1.4 Vp-p (H) SECAM 0.12Vp-p (H)
9	9 NISC 3.58/4.43 0.6 Vp-p(H) (2) PAL 0.2 Vp-p(H)	SECAM 1.4 Vp-p (H) SECAM 0.12Vp-p (H) SECAM SECAM
9	PAL 0.4 Vp-p(H)	SECAM 0.1 Vp-p(H) SECAM 0.1 Vp-p(H)
9 	PAL 0.4 Vp-p (H) PAL 0.4 Vp-p (H)	SECAM 1.4 Vp-p (H) SECAM 0.1 2Vp-p (H) SECAM 0.1 Vp-p (H)
9 	PAL 0.4 Vp-p (H) PAL 0.4 Vp-p (H)	SECAM 1.4 Vp-p (H) SECAM 0.1 2Vp-p (H) SECAM 0.1 Vp-p (H) SECAM 0.1 Vp-p (H)
9 -1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-	PAL 0.4 Vp-p (H) PAL 0.4 Vp-p (H) PAL 1 Vp-p (H)	SECAM 0.12Vp-p(H) SECAM 0.12Vp-p(H) SECAM 0.1 Vp-p(H) 13 SECAM 1 Vp-p(H)
9 	PAL 0.4 Vp-p (H) PAL 0.4 Vp-p (H)	SECAM 1.4 Vp-p (H) SECAM 0.1 2Vp-p (H) SECAM 0.1 Vp-p (H) SECAM 0.1 Vp-p (H)
9 -1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-	PAL 0.4 Vp-p (H) PAL 0.4 Vp-p (H) PAL 1 Vp-p (H)	SECAM 0.12Vp-p(H) SECAM 0.12Vp-p(H) SECAM 0.1 Vp-p(H) 13 SECAM 1 Vp-p(H)
9 	PAL 0.4 Vp-p(H) (2) PAL 0.2 Vp-p(H) (3) PAL 0.4 Vp-p(H) (4) PAL 1 Vp-p(H)	SECAM 0.12Vp-p(H) SECAM 0.12Vp-p(H) SECAM 0.1 Vp-p(H) 13 SECAM 1 Vp-p(H)
9 -11-11-11-11-11-11-11-11-11-11-11-11-11	PAL 0.4 Vp-p (H) PAL 1. Vp-p (H) PAL 1. Vp-p (H)	SECAM 0.12Vp-p(H) SECAM 0.12Vp-p(H) SECAM 0.1 Vp-p(H) SECAM 1 Vp-p(H) SECAM 0.9Vp-p(H)
9 	PAL 0.4 Vp-p(H) (2) PAL 0.2 Vp-p(H) (3) PAL 0.4 Vp-p(H) (4) PAL 1 Vp-p(H)	SECAM 0.12Vp-p(H) SECAM 0.12Vp-p(H) SECAM 0.1 Vp-p(H) SECAM 1 Vp-p(H)
9 -11-11-11-11-11-11-11-11-11-11-11-11-11	PAL 0.4 Vp-p (H) PAL 1. Vp-p (H) PAL 1. Vp-p (H)	SECAM 0.12Vp-p(H) SECAM 0.12Vp-p(H) SECAM 0.1 Vp-p(H) SECAM 1 Vp-p(H) SECAM 1 Vp-p(H)
9	PAL 0.4 Vp-p (H) PAL 1. Vp-p (H) PAL 1. Vp-p (H) PAL 1. Vp-p (H)	SECAM 0.12/p-p(H) SECAM 0.12/p-p(H) SECAM 0.1 Vp-p(H) SECAM 1 Vp-p(H) SECAM 1 Vp-p(H)
9 -11-11-11-11-11-11-11-11-11-11-11-11-11	PAL 0.4 Vp-p (H) PAL 1. Vp-p (H) PAL 1. Vp-p (H)	SECAM 0.12Vp-p(H) SECAM 0.12Vp-p(H) SECAM 0.1 Vp-p(H) SECAM 1 Vp-p(H) SECAM 1 Vp-p(H)

- B Board -

As to the voltage volue shown by the mark \divideontimes on the Schematic Diagram, see the another list.

	PAL	SECAM	NTSC3.58	NTSC4.43
1C301 (0.1	0.1	5.8	0.1
1	6.7	6.8	5.1	5.1
1C331 (19	3.1	3.6	3.1	2.8
1	3.0	3.5	2.9	2.7
\overline{u}	5.6	5.6	7.1	7.2
(3)	7.5	7.0	5.6	5.6
(3)	0.1	0.1	0.1	5.8
1	0.1	0.1	5.8	0.1
\overline{v}	0.1	5.8	0.1	0.1
(1)	5.9	0.1	0.1	0.1
Q331 (B)	0.1	0.1	5.8	0.1
(C)	1.5	1.9	0	0.8
Q333 (B)	3.4	4.4	4.4	4.4
Q334 (B)	4.9	0.1	4.8	4.8
0335 (B)	0.1	4.8	0.1	0.1

KV-H2511D MDR-IF310/RM-816 KV-H2511D MDR-IF310/RM-816 5 8 9 2 3 4 10 11 12 13 14 1 TO A BOARA A-33 - 2 8 4 5 9 7 8 5 RV331 1k R342 R-Y :CHIP 1C302 TĐA8442-N3 12V | Case | В 0.2 0316 25C2412K 0313 25C2412K CHIP 3.5 0382 1.6 ₹ 25C2412K 1000 | 5.9 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 25C2412K R312 220 R330 6.8 :CHIP R329 6.8 :CHIP R328 6.8 :C R331 R338 CHIP TO TOTAL C318 0:00 R339

+ C348 C346

C34 R332 R332 9350 270 270 9350 1/8W 1/8W MTZ5.6CJ R318 0301 10k 10k 155133 :CHIP D Đ302 155133 0305 DTA144EK Ð315 155133 Q306 JC501TP <u>3.5</u> 12V R405 ≸ 4.7k ★ :CHIP Ð317 155133 £320 155133 ₹2.9 ₹8355 3.3k 0330 25Å1037K R359 C1313 C1313 CH 3.9 Đ319 155133 ÐL332 £318 155133 L301 4.7#H 127 R360 R361 - 1302 R305 2.2k :CHIP R398 R398 **₹.22k** €.CHIP R363 ≸ 1.8k ≥ :CHIP R394 R392 R392 R392 R394 CHIP TO D BOARD D-3 SCL SĐA R387 14 : CHIP GNĐ G 1C303 1MC14053BCF C IN YC.SW ⊕307 MTZ11CJ VIĐEO IN GNĐ YIN 120 GNÐ VIĐEO OUT 10 25C2412K 3.8 3.9 0301 25C2412K a) L303 5.64H ₹ R406 3.3k :CHIP R403 100 :CHIP + C305 7 330 7 16V R390 220 220 :CHIP R351 ≱ 220 ≱ :CHIP C1312 22p CH: CHIP ₹R1301 ₹4.7k :CHIP CHROMA DECODER) L302 a 2.7k ★ *:CHIP ★ * ₹ R412 1.5k :CHIP T C1311 JR390 ☐ 0 :CHIP R402 1.2k :CHIP /// L1301 ag 220#H ÐL401 0332 25Å1037K 01301 0TC124EK 9 5 4 8 7 -12V B 0UT G 0UT R 0UT GNÐ AUTO CUTOFF TO Đ BOARĐ Đ-32 TO C BOARĐ C-72 B-554112<AEP>-B..

— 48 —

ROTECT ECAM SW ECAM SW ECAM SW ROTECT own by the Diagram, see

NTSC 4, 43 0.1 5.1 2.8 2.7 7.2 5.6 5.8 0.1 0.1 0.1 0.1 0.8 4.4 4.8

— 47 —

IĐEO PROCESSOR /A CONVERTER IC BUS

NTI PRIDRITY SCART

N SCREEN DISPLAY SW

N SCREEN DISPLAY

AS PICTURE MUTE SW

/C COMP SW DLOR PROCESSOR

BUFFER TBY SW

IĐEO BUFF

ANAL +BLK

IĐEO AMP TSC SW

IĐEO BUFF AMP

BUFF

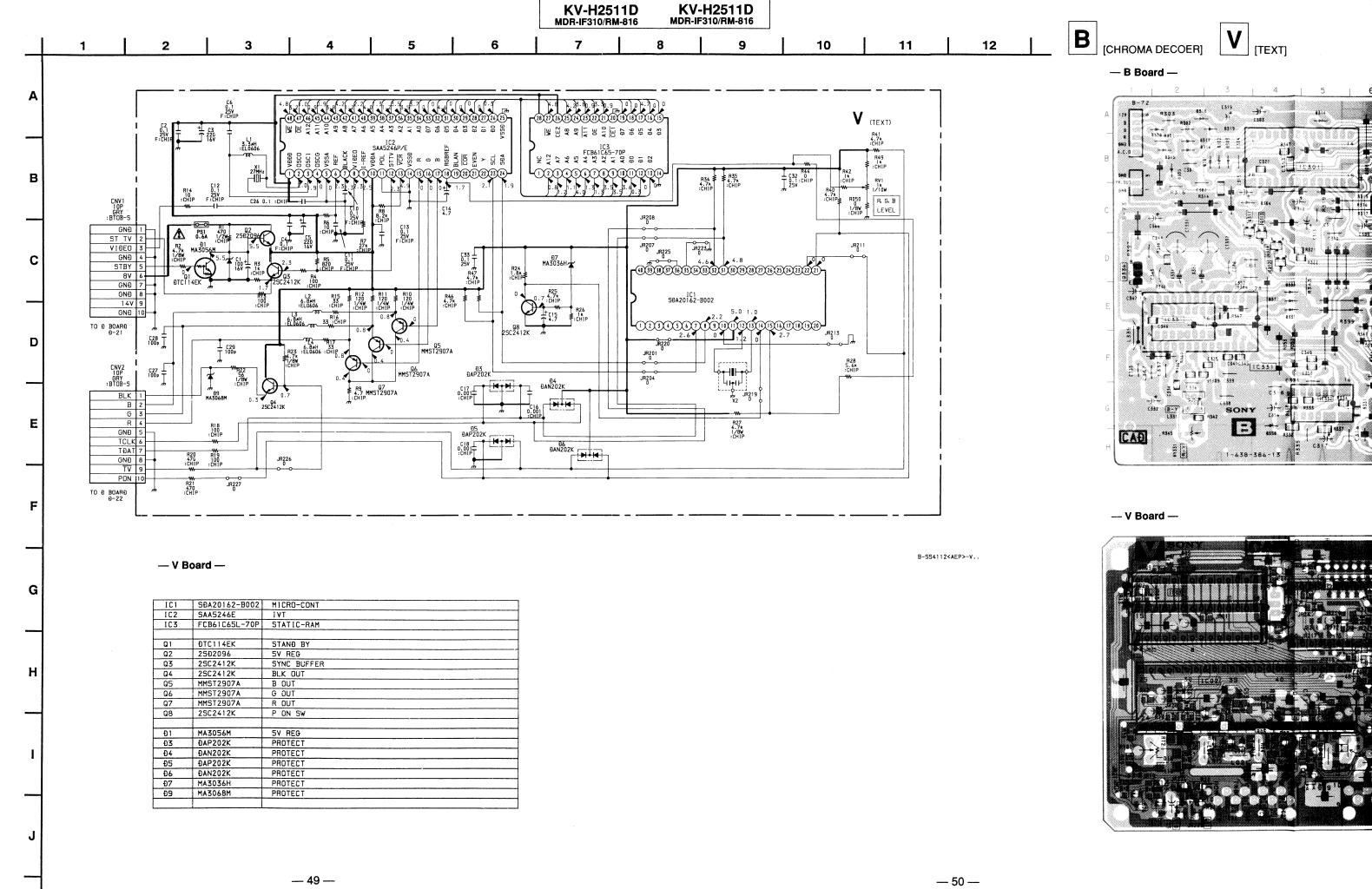
OUT CO AT STBY

AL/NTSC SW ECAM SW UTE

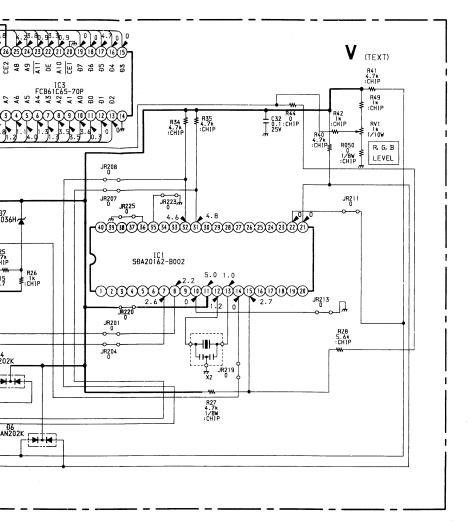
CO AT STBY

ROTECT

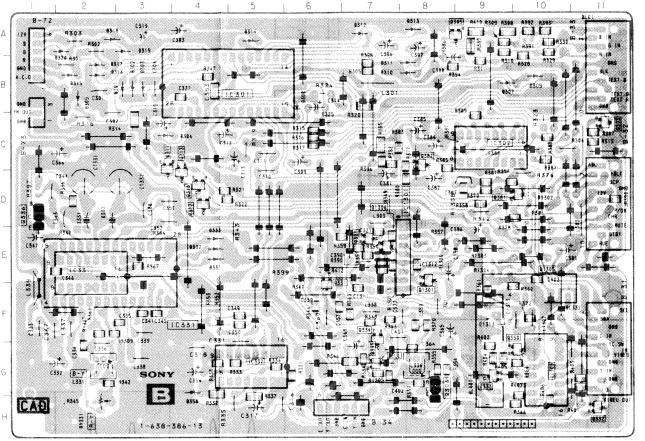
ECOUPLING BLK

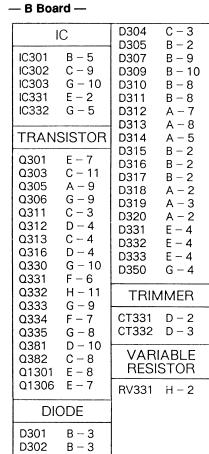


 KV-H2511D MDR-IF310/RM-816
 KV-H2511D MDR-IF310/RM-816
 F Inches (Inches in the content of the co



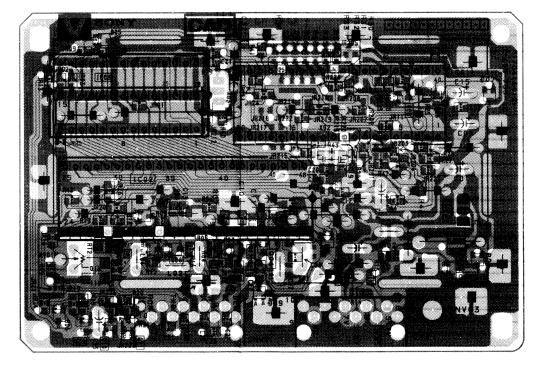
B-SS4112<AEP>--V..



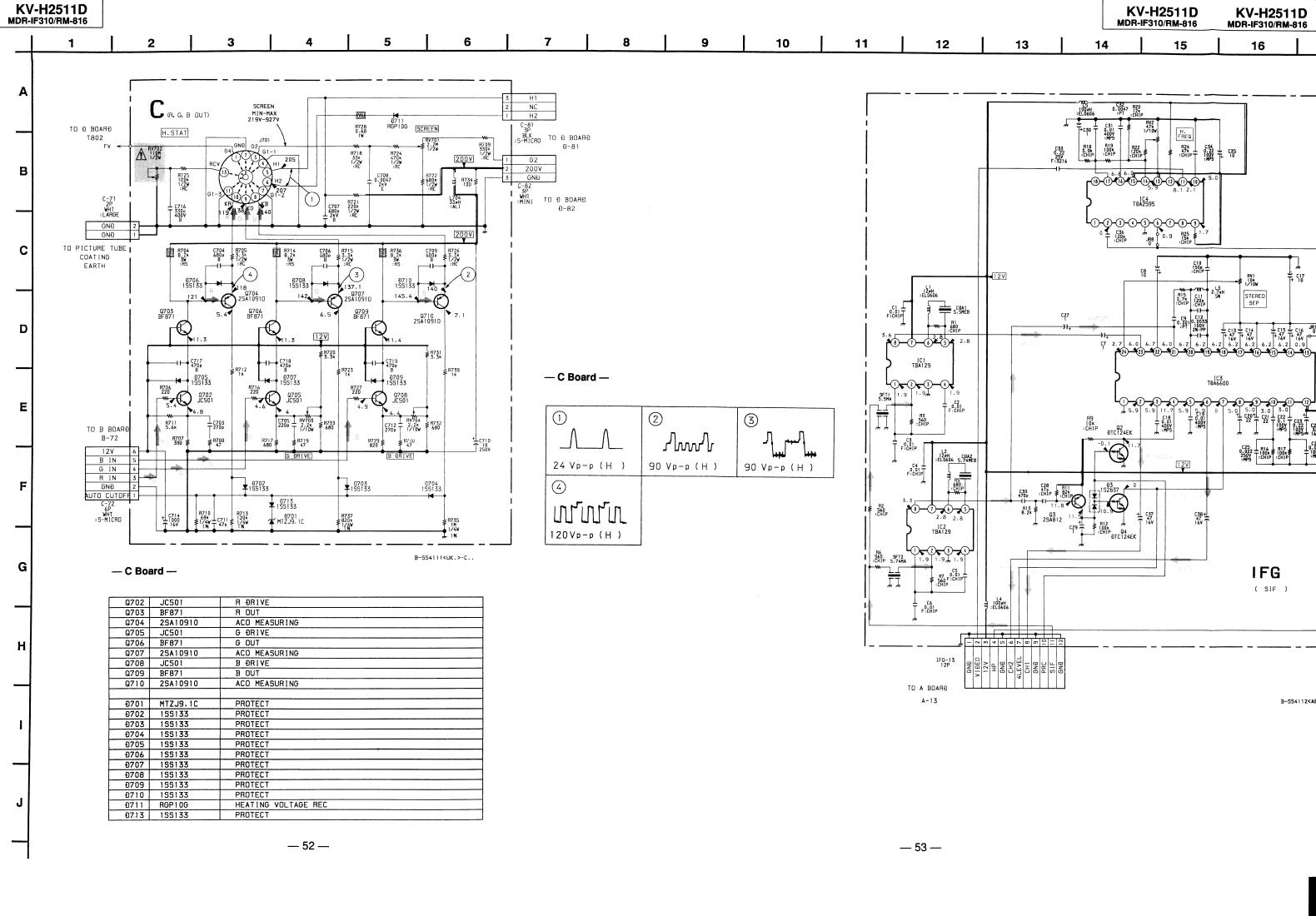


D303 B - 3

-- V Board ---

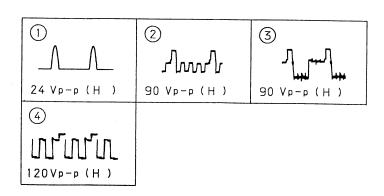


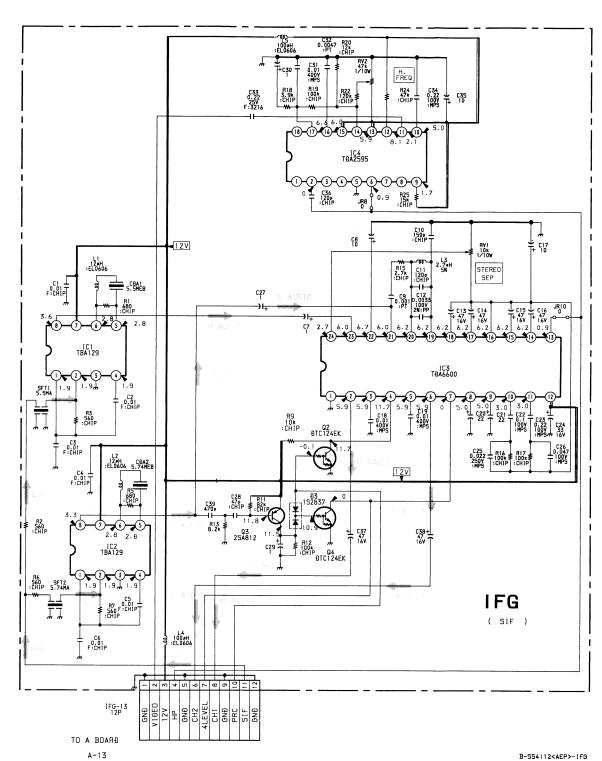
- Pattern from the side which enables seeing.
- Eattern of the rear side.





— C Board —





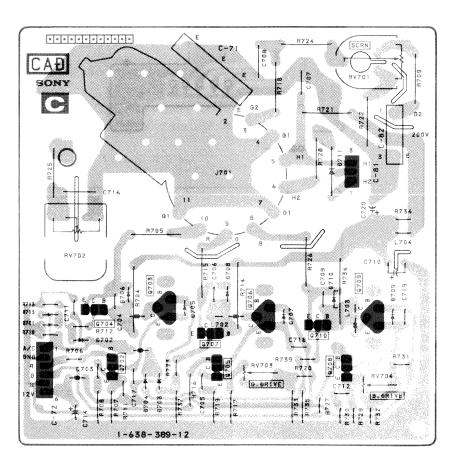
- IFG Board -

IC1	TBA129	5.5 ĐET
IC2	TBA129	5.74ĐET
IC3	00994GT	SIF ĐET AMP
IC4	TĐA2595	H.FREQ AMP
Q2	ÐTC124EK	SW
Q3	2SA812	SW
Q4	ÐTC124EK	SW
Đ3	152837	SW

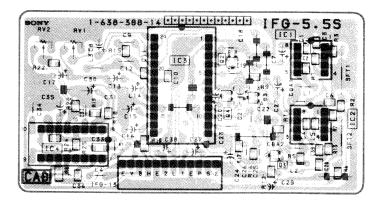


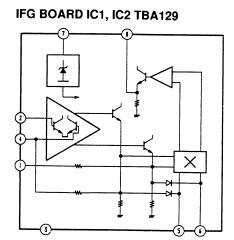
IFG s

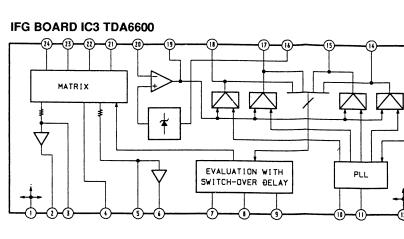
- C Board -



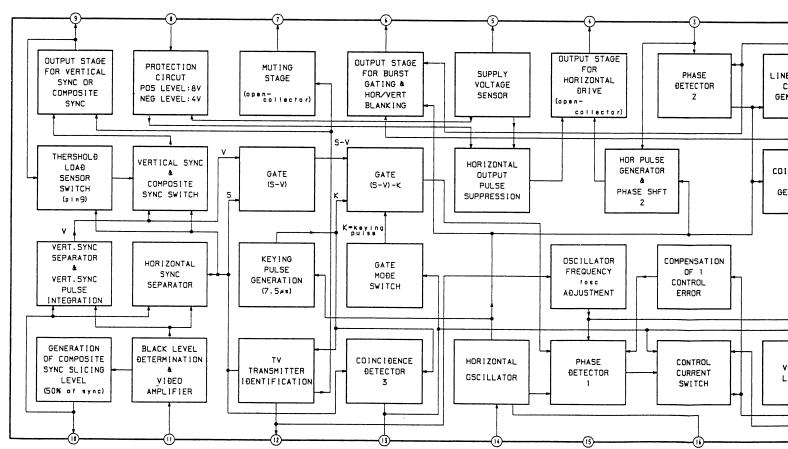
- IFG Board -



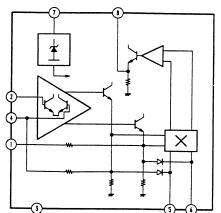


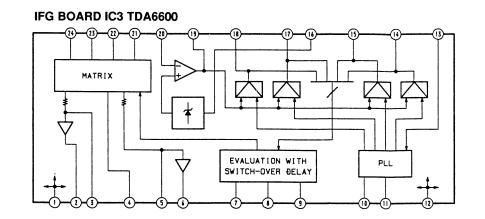


IFG BOARD IC4 TDA2595

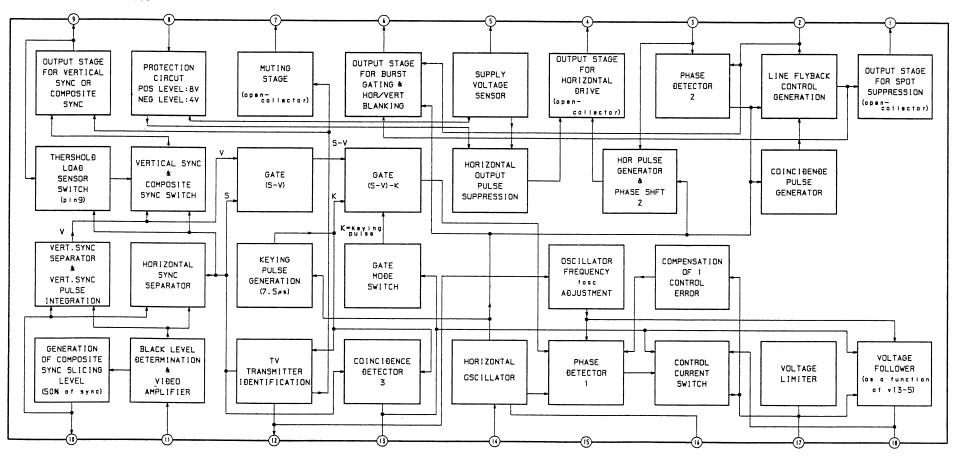


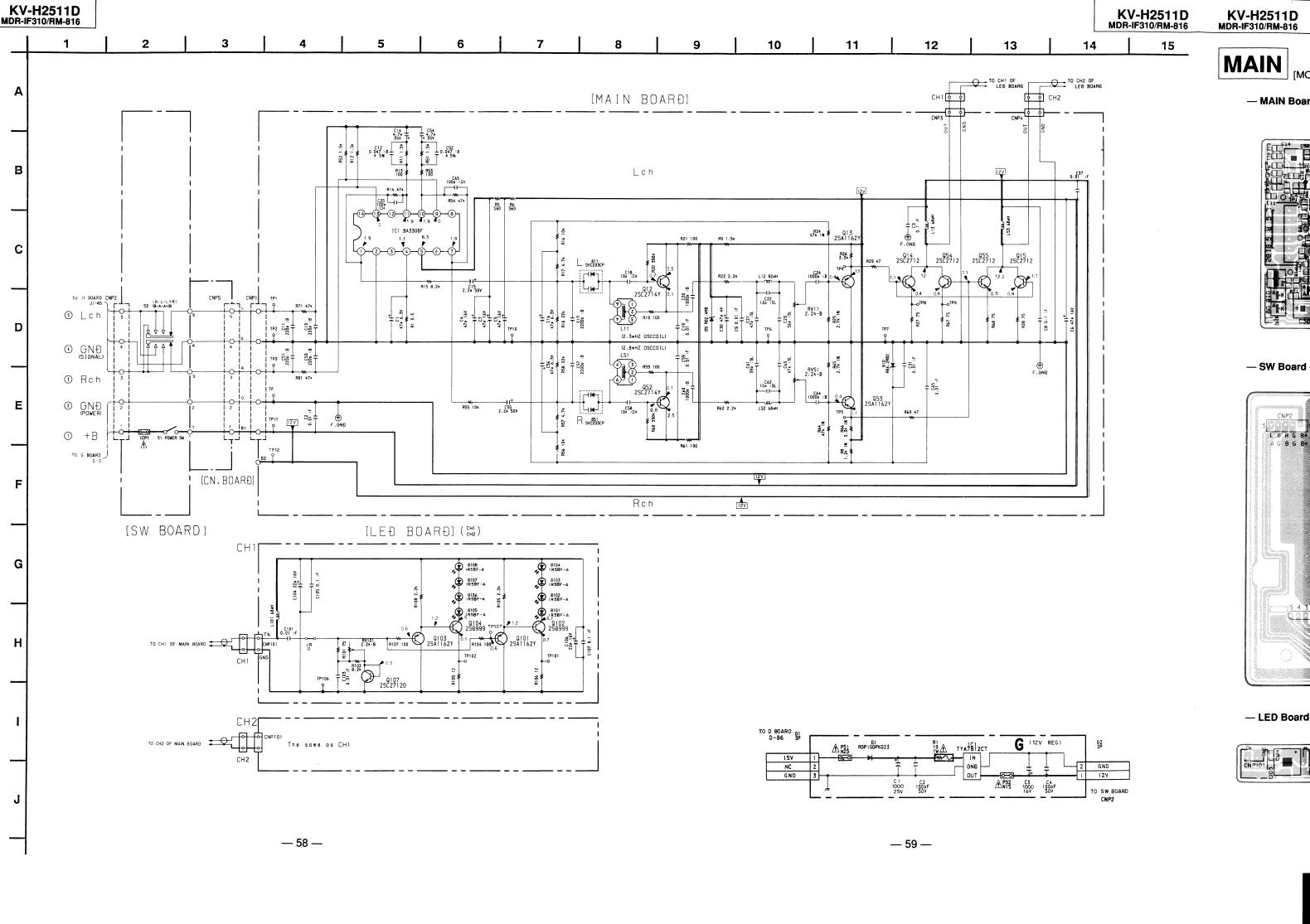
IFG BOARD IC1, IC2 TBA129



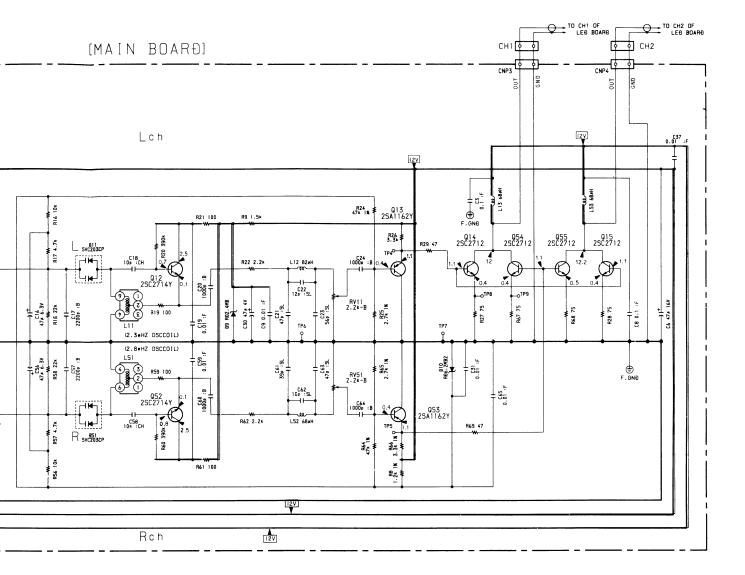


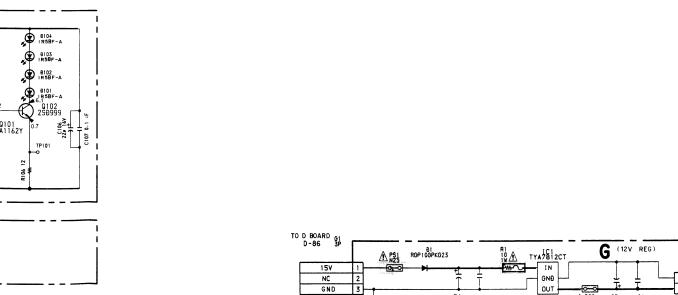
IFG BOARD IC4 TDA2595













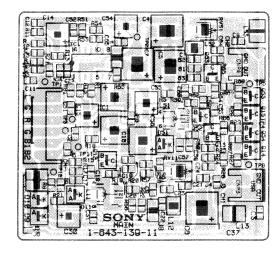




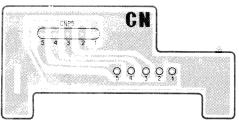




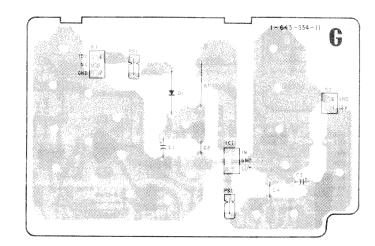
- MAIN Board -



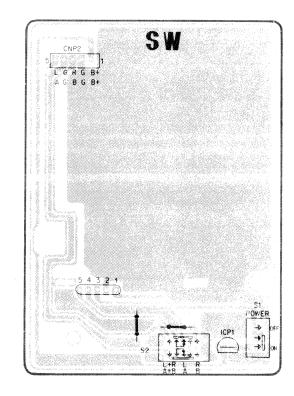
— CN Board —



— G Board —

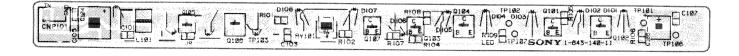


— SW Board —

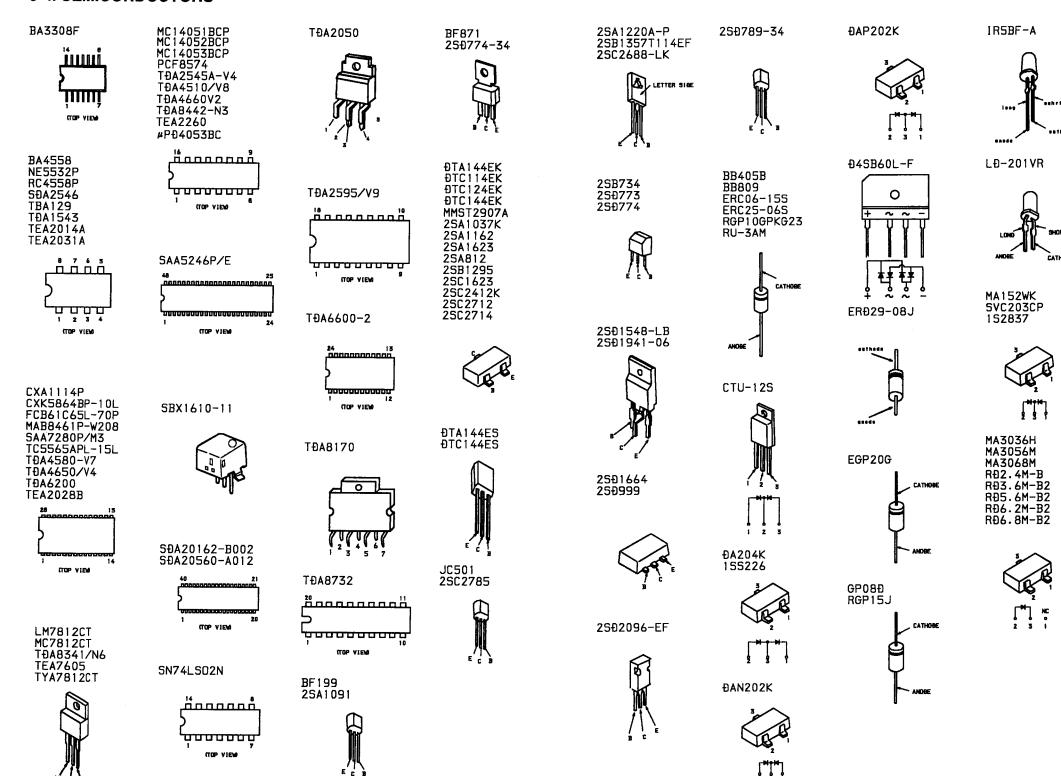


— LED Board —

12V TO SW BOARD



5-4. SEMICONDUCTORS



MTZJ-11C

MTZJ-13B

MTZJ-15A

MTZJ-33A

MTZJ-33A MTZJ-369 MTZJ-4.7B MTZJ-5.6B MTZJ-5.6C MTZJ-6.2B MTZJ-6.8C MTZJ-7.5C MTZJ-9.10

MTZN-10C RÐ11ESB3 RÐ5.6ESB2 RÐ6.2ESB2

RÐ6.8ESB2

RĐ7.5ESB2 RĐ9.1ESB3

UZ-4.7BSC 1SS119 1SS133

U05G

SECTION 6 EXPLODED VIEWS

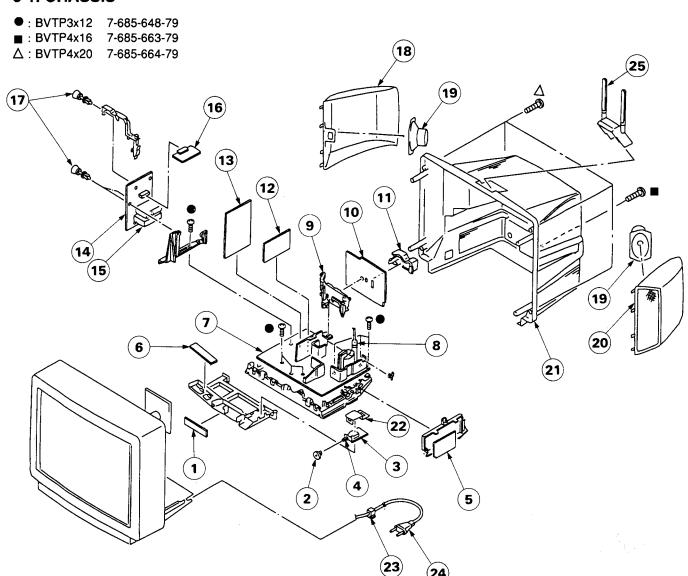
- · Items with no part-number and no description are not stocked because they are seldom required for
- routine servicing.

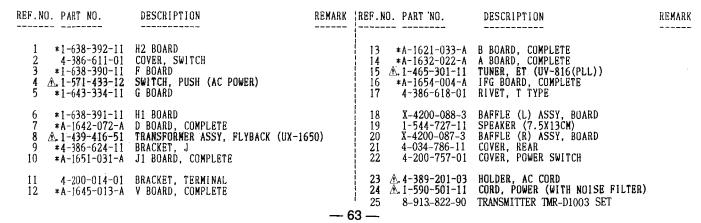
 The sub-parts required to make a pre-assembled part are indicated by collation numbers in the remark column.
- Items marked "*" are not stocked because they are seldom required for routine servicing. Some delay should be expected when ordering these

Components identified by shading and marked Δ are critical for safety.

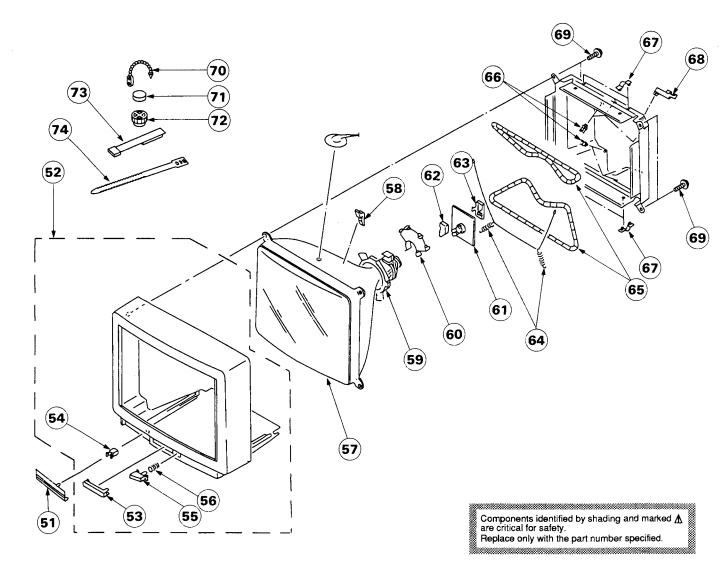
Replace only with the part number specified

6-1. CHASSIS





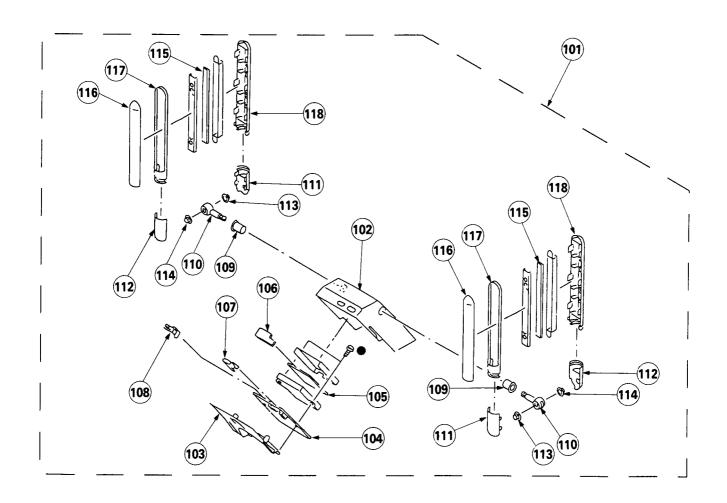
6-2. PICTURE TUBE



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
51 52 53 54 55	4-200-889-31 X-4030-156-4 4-200-148-01 4-392-036-01 4-200-886-01	DOOR CABINET ASSY (WITH BEZEL ASSY) WINDOW, ORNAMENTAL CATCHER, PUSH BUTTON, POWER	53~56	63 *4-379-160-01 64 4-303-774-99 65 1-460-091-11 66 4-034-296-01 67 *4-385-916-01	COVER (REAR LID), CV SPRING COTE DEGAUSS HOLDER, DGC HOLDER (D)	
58 59 <i>A</i>	4-329-112-51 4-329-112-51 4-733-231-05 3-704-495-01 4-451-311-21 *4-385-422-01	SPRING PICTURE TUBE (A59JWC61X) SPACER, DY DEFLECTION YOKE (Y25FXA) HOLDER, LEAD		68 *4-387-284-01 69 4-036-188-01 70 4-308-870-00 71 1-452-032-00 72 1-452-094-00	HOLDER, LEAD SCREW (M), PT CLIP, LEAD WIRE MAGNET, DISK; 10MM Ø MAGNET, ROTATABLE DISK; 15MM Ø	
	*A-1638-011-A *4-379-167-01	C BOARD, COMPLETE COVER (MAIN), CV		73 X-4387-214-1 74 3-701-007-00	PERMALLOY ASSY, CORRECTION BAND, BINDING	

6-3. TRANSMITTER

●: BVTP3x12 7-685-648-79



REF.NO	J. PART NO.	DESCRIPTION	REMARK	REF.NO	. PART NO.	DESCRIPTION	REMARK
101 102 103 104 105	A-4546-030-A *4-035-887-01 *4-035-888-01 *1-643-141-11 *A-4542-098-A	OVERALL ASSY COVER, MODULATOR BRACKET, MODULATOR SW BOARD MAIN BOARD, COMPLETE	102~118	110 111 112 113 114	4-035-881-01 4-035-883-01 4-035-884-01 4-035-886-01 4-035-885-01	JOINT COVER (A), JOINT COVER (B), JOINT DISK (B) DISK (A)	
106 107 108 109	*1-643-965-11 4-035-878-01 4-035-879-01 4-035-882-01	CN BOARD BUTTON, PUSH BUTTON, SLIDE BEARING		115 116 117 118	*1-643-140-11 4-035-877-01 4-035-876-01 4-035-875-01	LED BOARD COVER, LED FRAME, EMITTER HOLDER, EMITTER	



SECTION 7 ELECTRICAL PARTS LIST

NOTE:

specified.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number

Items marked "*" are not stocked because they are seldom required for routine servicing. Some delay should be expected when ordering these items.

When indicating parts by reference number, please include the board name.

CAPACITORS MF: μF, PF: μμF

COILS • MMH: mH, UH: μH

All variable and adjustable resistors have characteristic curve B, unless otherwise stated.

RESISTORS

- All resistor values are in Ohms F: non-flammable

REF.NO. P	ART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
		B BOARD, COMP	PLETE			C351 C352 C353 C354 C357	1-137-102-11 1-137-102-11	FILM FILM CERAMIC CHIP	47MF	10% 10% 10% 20% 5%	250V 250V 50V 50V 50V
B31 *1 B32 *1 B33 *1 B72 *1		NECTOR> CONNECTOR, BO CONNECTOR, BO CONNECTOR, BO PIN, CONNECTO	DARD TO BOAR DARD TO BOAR DARD TO BOAR DR GP	D D D		C358 C359 C360 C364 C365		ELECT CERAMIC CHIP CERAMIC CERAMIC CHIP	33MF 27PF 0.01MF	20% 5% 5% 20%	50V 50V 50V 50V
C302 I C303 I C304 I		FILM Elect	0.22MF 0.22MF 100MF 0.22MF 330MF	10% 10% 20% 10% 20%	100V 100V 50V 100V 16V	C366 C367 C381 C382 C384	1-126-103-11 1-101-004-00 1-124-902-00 1-124-927-11 1-124-910-11	CERAMIC ELECT ELECT	470MF 0.01MF 0.47MF 4.7MF 47MF	20% 20% 20% 20%	16V 50V 50V 50V
C306 1 C307 1 C308 1 C309 1	1-124-902-00 1-124-902-00 1-124-902-00 1-124-902-00 1-137-098-11	BLECT BLECT BLECT BLECT FILM	0.47MF 0.47MF 0.47MF 0.47MF 0.1MF	20% 20% 20% 20% 10%	50V 50V 50V 50V 100V	C385 C387 C388 C401 C402	1-124-927-11 1-137-027-11 1-137-098-11 1-101-361-00 1-163-197-00	FILM FILM CERAMIC CERAMIC CHIP		20% 10% 10% 5% 5%	50V 63V 100V 50V
C312 1 C313 1 C314 1	1-137-098-11 1-124-902-00 1-124-902-00 1-124-902-00 1-124-903-11	FILM ELECT ELECT ELECT ELECT	0.1MF 0.47MF 0.47MF 0.47MF 1MF	10% 20% 20% 20% 20%	100V 50V 50V 50V 50V	C1312		CERAMIC CHIP	0.01MF 56PF 22PF 18PF	5% 5% 5%	50V 50V 50V 50V
C317] C318] C321]	1-137-098-11 1-124-910-11 1-137-098-11 1-163-117-00 1-102-947-00	FILM BLECT FILM CERAMIC CHIP CERAMIC	0.1MF 47MF 0.1MF 100PF 10PF	10% 20% 10% 5% 0.5PF	100V 50V 100V 50V 50V	CT331 CT332	1-141-418-11 1-141-418-11 <d10< td=""><td>CAP, ADJ CAP, ADJ</td><td></td><td></td><td></td></d10<>	CAP, ADJ CAP, ADJ			
C330 1 C331 1 C332 1	1-163-031-11 1-163-113-00 1-137-098-11 1-126-103-11 1-137-102-11	CERAMIC CHIP CERAMIC CHIP FILM ELECT FILM	0.01MF 68PF 0.1MF 470MF 0.022MF	5% 10% 20% 10%	50V 50V 100V 16V 250V	D301 D302 D303 D304 D305	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119			
C336 [C337]	l <i>-</i> 102-816-00	CERAMIC	27PF 27PF 120PF 0.01MF 0.1MF	5% 5% 5% 10%	50V 50V 50V 50V 100V	D307 D309 D310 D311 D312	8-719-110-23 8-719-911-19 8-719-110-23 8-719-110-23		-B3 -B3		
C341 [C343] C344 [C345]	1-137-098-11 1-163-125-00 1-137-094-11 1-137-033-11 1-163-123-00	FILM CERAMIC CHIP FILM FILM CERAMIC CHIP	0.047MF 0.33MF	10% 5% 10% 10% 5%	100V 50V 100V 100V 50V	D313 D314 D315 D316 D317	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119			
C347 C348 C349	1-163-033-00 1-124-903-11 1-124-903-11 1-163-031-11 1-163-031-11	CERAMIC CHIP BLECT BLECT CERAMIC CHIP CERAMIC CHIP	1MF 1MF 0.01MF	20% 20%	50V 50V 50V 50V 50V	D318 D319 D320 D331	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119			



DEE NO	PART NO.	DESCRIPTION			DEMARK	lnee no	DADT NO	NPCCD LDB LON				DDWADU
ner.no.	7 ANT NO.	DESCRIPTION			HEMAKK	KEF.NU.		DESCRIPTION				REMARK
D332 D333 D350	8-719-911-19 8-719-911-19 8-719-109-89	DIODE 188119 DIODE 188119 DIODE RD5 688	5-B2			R314		METAL GLAZE			1/8W 1/10W	
2330	<del< td=""><td>AY LINE></td><td>, 02</td><td></td><td></td><td>R316 R317 R318 R319</td><td>1-216-031-00 1-216-031-00 1-216-031-00 1-249-429-11 1-249-409-11</td><td>CARBON</td><td>180 180 180 10K 220</td><td>5% 5% 5% 5%</td><td>1/10W 1/10W 1/10W 1/4W 1/4W</td><td></td></del<>	AY LINE>	, 02			R316 R317 R318 R319	1-216-031-00 1-216-031-00 1-216-031-00 1-249-429-11 1-249-409-11	CARBON	180 180 180 10K 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/4W	
DL332 DL401	1-236-062-11 1-415-613-11	MODULE, Y DEL DELAY LINE, Y	AY LINE			R320					1/8W	
1.0301	<[C>	[(TD	,			R322 R328 R329	1-216-037-00 1-216-049-00 1-216-311-00 1-216-311-00	METAL GLAZE METAL GLAZE	2.2k 1K 6.8 6.8	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
I C302 I C303 I C331 I C332	8-719-911-19 8-719-911-19 8-719-911-19 8-719-109-89	IC TDA8442N3 IC UPD4053BC IC TDA4650/V4 IC TDA4660V2	I			R330 R331 R332 R333 R334	1-216-311-00 1-216-001-00 1-216-184-00 1-216-121-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	6.8 10 270 1M 10K	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W	
	<c01< td=""><td>L></td><td></td><td></td><td></td><td>R335 R336</td><td>1-247-852-11 1-216-061-00</td><td>CARBON METAL GLAZE</td><td>7.5K 3.3K</td><td>5% 5%</td><td>1/4W 1/10W</td><td></td></c01<>	L>				R335 R336	1-247-852-11 1-216-061-00	CARBON METAL GLAZE	7.5K 3.3K	5% 5%	1/4W 1/10W	
L301 L302 L303 L331	1-410-868-11 1-410-868-11 1-408-406-00 1-404-554-11	INDUCTOR INDUCTOR INDUCTOR COIL	4.7UH 4.7UH 5.6UH			R337 R338 R339	1-216-184-00 1-216-001-00 1-216-033-00	METAL GLAZE Metal Glaze	270 10 220	5% 5% 5%	1/8W 1/10W 1/10W	
L336	1-404-554-11	COIL	10114			R341 R342	1-216-031-00 1-216-041-00 1-216-089-00	METAL GLAZE	180 470 47K	5% 5%	1/10W 1/10W	
L1301 L1302	1-408-425-00 1-408-419-00	INDUCTOR INDUCTOR	220UH 68UH			R346 R347	1-216-089-00 1-216-202-00 1-216-073-00	METAL GLAZE	1.5K 10K	5% 5% 5% 5%	1/10W 1/8W 1/10W	
	<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td>R348 R349</td><td>1-216-089-00 1-216-045-00</td><td>METAL GLAZE</td><td>47K 680</td><td>5% 5%</td><td>1/10W 1/10W</td><td></td></tra<>	NSISTOR>				R348 R349	1-216-089-00 1-216-045-00	METAL GLAZE	47K 680	5% 5%	1/10W 1/10W	
Q301 Q303	8-729-120-28 8-729-120-28	TRANSISTOR 25	C1623-L C1623-L	5L6 5L6		R350 R351 R354	1-216-045-00 1-216-033-00 1-216-033-00	METAL GLAZE	680 220 220	5% 5% 5%	1/10W 1/10W 1/10W	
Q305 Q306 Q311	8-729-901-06 8-729-119-78 8-729-120-28	TRANSISTOR DT TRANSISTOR 29	A144EK C2785-H	3E		R355	1-216-061-00 1-216-069-00	METAL GLAZE	3.3K 6.8K		1/10W	
Q312 Q313	8-729-120-28 8-729-120-28	TRANSISTOR 25	C1623-L	5L6		R358 R359	1-216-033-00 1-216-089-00	METAL GLAZE METAL GLAZE	220 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
Q316 Q330	8-729-120-28 8-729-120-28 8-729-901-06 8-729-119-78 8-729-120-28 8-729-120-28 8-729-120-28 8-729-120-28 8-729-901-00 8-729-216-22 8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR 2S TRANSISTOR 2S	C1623-L C1623-L SA1162-G	5L6		R361	1-216-089-00 1-216-057-00		47K 2.2K		1/10W 1/10W	
Q331 Q332	8-729-901-00 8-729-216-22	TRANSISTOR DT	'C124EK Sa1162-g			R363 R364 R365	1-216-055-00 1-216-059-00 1-216-047-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 1.8K 2.7K 820 2.7K	5% 5%	1/10W 1/10W 1/10W	
Q333 Q334 Q335	8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	641162~G 6C1623-L	5L6		R366	1-216-059-00				1/10W	
Q381	8-729-901-00	TRANSISTOR DT	C124EK	, DO		R370 R372	1-216-033-00 1-216-033-00 1-216-023-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 220 82	5% 5% 5%	1/10W 1/10W 1/10W	
Q382 Q1301 Q1306	8-729-120-28 8-729-901-00 8-729-120-28	TRANSISTOR 2S TRANSISTOR DT TRANSISTOR 2S	'C124EK			R376 R377	1-249-429-11 1-216-037-00	CARBON METAL GLAZE	10K 330	5% 5% 5%	1/4W 1/10W	
	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td>R378 R379 R380</td><td>1-216-097-00 1-216-089-00 1-216-071-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE</td><td>100K 47K 8.2K</td><td>5% 5% 5%</td><td>1/10W 1/10W 1/10W</td><td></td></res<>	ISTOR>				R378 R379 R380	1-216-097-00 1-216-089-00 1-216-071-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 47K 8.2K	5% 5% 5%	1/10W 1/10W 1/10W	
JR385 JR390	1-216-206-00 1-216-295-00	METAL GLAZE METAL GLAZE	2.2K	5% 1/8W 5% 1/10W 5% 1/4W		R381 R382	1-216-093-00 1-216-105-00	METAL GLAZE METAL GLAZE	68K 220K	5% 5%	1/10W 1/10W	
R301 R302	1-249-409-11 1-249-409-11	CARBON CARBON	220 220	5% 1/4W		R383 R384	1-216-115-00 1-216-029-00	METAL GLAZE METAL GLAZE	560K 150	5% 5%	1/10W 1/10W	
R303 R304	1-249-409-11 1-249-409-11	CARBON CARBON				R385 R387 R388	1-216-085-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	33K 1K 1K	5% 5% 5%	1/10W 1/10W 1/10W	
R305 R307 R308	1-216-057-00 1-216-097-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 100K 0	5% 1/4W 5% 1/10W 5% 1/10W 5% 1/8W		R389 R390	1-216-101-00 1-216-033-00	METAL GLAZE METAL GLAZE	150K 220		1/10W 1/10W	
R309 R310	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	100	5% 1/10W		R392 R393 R394	1-216-021-00 1-216-021-00 1-216-021-00	METAL GLAZE METAL GLAZE METAL GLAZE	68 68 68	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R311 R312 R313	1-216-025-00 1-249-409-11 1-216-081-00	METAL GLAZE CARBON METAL GLAZE	100 220 22K	5% 1/10W 5% 1/10W 5% 1/4W 5% 1/10W		R395 R396	1-216-214-00 1-216-041-00	METAL GLAZE METAL GLAZE	4.7K 470	5% 5%	1/10W 1/8W 1/10W	
				, 10#			011 00	donob	110	J /0	1, 100	



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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R398 R401	1-216-081-00		22K 5% 1.5K 5%	1/10W 1/10W		C108	1-136-165-00	FILM	0.1MF	5%	50V
R402 R403 R404	1-216-053-00 1-216-051-00 1-216-025-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.2K 5% 100 5% 2.7K 5%	1/10W 1/10W 1/10W		C109 C111 C115 C127	1-163-133-00 1-124-925-11 1-124-925-11 1-124-122-11	ELECT ELECT ELECT	2.2MF 2.2MF 100MF	5% 20% 20% 20%	50V 50V 50V 50V
R405 R406 R407	1-216-065-00 1-216-061-00 1-216-047-00		4.7K 5% 3.3K 5% 820 5% 270 5%	(1/10W (1/10W (1/10W		C128	1-124-910-11 1-124-910-11	ELECT	47MF	20% 20%	50V 50V
R410 R412	1-216-184-00 1-216-053-00	METAL GLAZE	270 5% 1.5K 5%	1/8W 1/10W		C138 C171 C172	1-136-165-00 1-163-005-11 1-163-005-11	FILM CERAMIC CHIP	0.1MF 470PF	5% 10% 10%	50V 50V 50V
R1301 R1305 R1307	1-216-065-00 1-216-001-00 1-216-03 7 -00	METAL GLAZE	4.7K 57 10 57 330 57	1/10W 1/10W 1/10W		C177	1-102-074-00	CERAMIC	0.001MF	10%	50V
R1308	1-216-037-00 1-216-295-00 1-216-037-00	METAL GLAZE	0 5% 330 5%	4 1/1UW		C181	1-101-004-00		U.UIMF		50 V
	<var< td=""><td>IABLE RESISTOR</td><td>></td><td></td><td></td><td>IC103</td><td><1C> 8-759-979-62</td><td></td><td></td><td></td><td></td></var<>	IABLE RESISTOR	>			IC103	<1C> 8-759-979-62				
RV331	1-238-012-11	RES, ADJ, CAR	BON 1K				<c01< td=""><td>L></td><td></td><td></td><td></td></c01<>	L>			
		STAL>				L101	1-410-683-31 1-408-225-00	INDUCTOR	560UH 3.3UH		
X331 X332	1-567-307-11 1-567-131-00	OSCILLATOR, O	RYSTAL RYSTAL			L102 L107	1-408-413-00 1-408-397-00	INDUCTOR INDUCTOR	22UH 1UH		
	**********		*******	********	******		<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td></tra<>	NSISTOR>			
	*1-638-390-11	*****				Q113 Q114	8-729-120-28 8-729-120-28	TRANSISTOR 25	SC1623-L5L6		
	*4-341-752-01	EYELET				Q115 Q116 Q125	8-729-120-28 8-729-120-28 8-729-900-89	TRANSISTOR 25	SC1623-L5L6		
		NECTOR>				Q126	8-729-901-06				
F61 F62	*1-580-844-11 *1-580-844-11	PIN, CONNECTO PIN, CONNECTO	IR (POWER) IR (POWER)			Q181	8-729-120-28	TRANSISTOR 25	SC1623-L5L6		
	<fus< td=""><td>E></td><td></td><td></td><td></td><td>IDOGG</td><td></td><td>ISTOR></td><td>0 511</td><td>• (•01)</td><td></td></fus<>	E>				IDOGG		ISTOR>	0 511	• (•01)	
F16012	<u>↑</u> 1-576-231-21 1-533-230-11	FUSE (H.B.C.) HOLDER, FUSE;	4A/250V F1601			JR252 JR253 JR255	1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/10W 1/8W 1/8W 1/8W 1/8W	
<i>.</i>	<swi< td=""><td></td><td>4. 6</td><td></td><td></td><td>JR257</td><td>1-216-296-00</td><td>METAL GLAZE</td><td>0 5%</td><td>1/8W</td><td></td></swi<>		4. 6			JR257	1-216-296-00	METAL GLAZE	0 5%	1/8W	
	∆ 1-571-433-12 :*******				:*****	JR258 R101 R105 R107	1-216-296-00 1-216-025-00 1-216-079-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 100 5% 18K 5% 22K 5%	1/8W 1/10W 1/10W 1/10W	
	*A-1632-022-A	A BOARD, COMP				R108	1-216-079-00	METAL GLAZE	18K 5%	1/10W	
	<con< td=""><td>NECTOR></td><td></td><td></td><td></td><td>R110 R111 R116</td><td>1-249-429-11 1-216-057-00 1-216-023-00</td><td>CARBON METAL GLAZE METAL GLAZE</td><td>10K 5% 2.2K 5% 82 5% 33K 5%</td><td>1/4W 1/10W 1/10W</td><td></td></con<>	NECTOR>				R110 R111 R116	1-249-429-11 1-216-057-00 1-216-023-00	CARBON METAL GLAZE METAL GLAZE	10K 5% 2.2K 5% 82 5% 33K 5%	1/4W 1/10W 1/10W	
	*1-565-393-11					R118	1-216-085-00	METAL GLAZE		1/10W	
A13 A16	*1-565-393-11 *1-565-503-11 *1-560-290-00	CONNECTOR, BO	ARD TO BOOK OR (2.5M)	DARD 12P		R128 R129 R130	1-216-027-00 1-216-057-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	120 5% 2.2K 5% 2.2K 5%	1/10W 1/10W 1/10W	
	*1-564-886-11 *1-564-881-11	PLUG, CONNECT				R157 R158	1-216-049-00 1-249-409-11	METAL GLAZE CARBON	1K 5% 220 5%	1/10W 1/4W	
			41			R159 R161	1-249-409-11 1-216-089-00	CARBON METAL GLAZE	220 5% 47K 5% 82K 5%	1/4W 1/10W	
C101	1-126-233-11	ACITOR> ELECT	22MF	20%	50V	R162 R163 R164	1-216-095-00 1-216-095-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE	82K 5% 82K 5% 12K 5%	1/10W 1/10W 1/10W	
C102 C104 C106	1-126-103-11 1-124-910-11 1-126-233-11	ELECT ELECT ELECT	470MF 47MF 22MF	20% 20% 20%	16V 50V 50V	R165 R167	1-216-075-00 1-216-059-00	METAL GLAZE METAL GLAZE	12K 5% 2.7K 5%	1/10W 1/10W	

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REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R168 R169 R181 R182 R193		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 2.7K 1K 4.7K 10K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W		C703	1-102-980-00	ACITOR>	270PF	5%	50 V
R194 R195 R196	1-216-017-00 1-216-017-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE	47 47 470K	5% 5% 5%	1/10W 1/10W 1/10W		C704 C705 C706 C707	1-102-116-00 1-102-978-00 1-102-116-00 1-162-116-00	CERAMIC CERAMIC CERAMIC CERAMIC	680PF 220PF 680PF 680PF	10% 5% 10% 10%	50V 50V 50V 2KV
	<tun< td=""><td>ER></td><td></td><td></td><td></td><td></td><td>C708 C709</td><td>1-162-114-00 1-102-116-00</td><td>CERAMIC CERAMIC</td><td>0.0047MF 680PF</td><td>10%</td><td>2KV 50V</td></tun<>	ER>					C708 C709	1-162-114-00 1-102-116-00	CERAMIC CERAMIC	0.00 47M F 680PF	10%	2KV 50V
TU101	<u>↑</u> 1-465-301-11	TUNER, ET (UV-	816 (PI	.L))			C710 C711 C712	1-123-947-00 1-101-880-00 1-102-980-00	ELECT CERAMIC CERAMIC	10MF 47PF 270PF	20% 5% 5%	250V 50V 50V
		BLOCK>					C714 C716	1-124-360-00 1-162-622-11		1000MF 330PF	20% 10%	16V 400V
		IF BLOCK (IFG-				- 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40	C717 C718 C719	1-102-114-00 1-102-114-00	CERAMIC CERAMIC	470PF 470PF	10% 10%	50V 50V
	*1-643-334-11		*****	****	*****	*****	6719	1-102-114-00	CERAMIC	470PF	10%	50V
		*****						<010				
C01 C02	1-124-557-11 1-102-973-00	CERAMIC T	000 M F 00PF		5%	25V 50V	D701 D702 D703 D704 D705	8-719-110-14 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19		S-B3		
C03 C04 C07	1-124-360-00 1-102-973-00 1-124-557-11	CERAMIC 1	000MF 00PF 000MF		20% 5% 20%	16V 50V 25V	D706 D707 D708 D709	8-719-911-19 8-719-911-19				
	<010	DE>					D710	8-719-911-19	DIODE 155119			
D1	8-719-300-33	DIODE RU-3AM					D711 D713	8-719-300-33 8-719-911-19				
	<con< td=""><td>NECTOR></td><td></td><td></td><td></td><td></td><td></td><td><jac< td=""><td>V ></td><td></td><td></td><td></td></jac<></td></con<>	NECTOR>						<jac< td=""><td>V ></td><td></td><td></td><td></td></jac<>	V >			
		PIN, CONNECTOR PIN, CONNECTOR					J701	1-526-990-11		JRE TUBE		
	<1¢>				•			<c01< td=""><td>L></td><td></td><td></td><td></td></c01<>	L>			
I CO 1	8-759-037-26	IC TYA7812CT					L704	1-408-415-00	INDUCTOR	33UH		
	<10	LINK>						<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td></tra<>	NSISTOR>			
PS1 A		LINK, IC 1A LINK, IC 0.4A		n i haraga haraga			Q702 Q703 Q704 Q705	8-729-119-78 8-729-906-70 8-729-200-17 8-729-119-78		871 841091-0		
Dit A		ISTOR>	• • • • • •	داه ت		<u>.</u>	Q706	8-729-906-70	TRANSISTOR BE	7871		
		FUSIBLE					Q707 Q708 Q709	8-729-200-17 8-729-119-78 8-729-906-70	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR BE	SC2785-HFE		
		C BOARD, COMPLI	ETE			*******	Q 710	8-729-200-17				
	* /-370-160-01	**************************************						<res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<>	ISTOR>			
	*4-379-167-01	COVER (REAR LII COVER (MAIN),	CV CV				R704 R705	1-216-486-00 1-202-824-00	METAL OXIDE	8.2K 5% 3.3K 10%	3W 1/2W	F
C71		NECTOR>	2D				R706 R707 R708	1-249-409-11 1-249-412-11	CARBON CARBON CARBON	220 5% 390 5% 47 5%	1/4W 1/4W 1/4W	
C72 C81	*1-568-881-51 *1-568-878-51	PIN, CONNECTOR PIN, CONNECTOR PIN, CONNECTOR	6P 3P	PITCH) 3 P		R709 R710 R711	1-202-844-00 1-215-465-00 1-249-426-11	SOLID METAL CARBON	330K 10% 68K 1% 5.6K 5%	1/2W 1/4W 1/4W	

KV-H2511D MDR-IF310/RM-816



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REF.NO. PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R712 1-249-417-11 R713 1-215-471-00 R714 1-216-486-00	CARBON METAL METAL OXIDE	120K 8.2K	5%	3₩		C027 C030	1-163-038-00				50V 25V
R715 1-202-824-00 R716 1-249-409-11	SOLID CARBON	3.3K 220	10% 5%	1/2W 1/4W		C031 C032 C033 C034 C251	1-163-081-00 1-163-081-00 1-163-181-00 1-124-907-11 1-124-903-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.22MF 0.22MF 100PF	5% 20%	25V 25V 50V 50V
R718 1-202-814-11 R719 1-249-401-11 R720 1-249-423-11	CARBON SOLID CARBON CARBON SOLID	33K 47 3.3K	10% 5% 5%	1/4W 1/4W 1/4W		C251	1-124-903-11 1-124-903-11 1-126-233-11 1-163-009-11			20%	50V 50V
R721 1-202-842-11 R722 1-202-848-00 R723 1-249-417-11	SOLID SOLID CARBON	220K 680K 1K	10% 10% 5%	1/2W 1/2W 1/4W	F	C253 C254 C255 C261	1-163-009-11 1-137-098-11 1-124-636-00 1-124-903-11	FILM	0.001MF 0.1MF 3300MF 1MF	10% 10% 20% 20%	50V 100V 25V 50V
R724 1-202-846-00 R725 1-202-838-00 R726 1-202-824-00	SOLID CARBON SOLID SOLID SOLID	470K 100K 3.3K	10% 10% 10%	1/2W 1/2W 1/2W		C262 C263	1-126-233-11 1-163-009-11	ELECT CERAMIC CHIP	22MF 0.001MF	20% 10%	50V 50V
R727 1-249-409-11 R728 1-216-347-11 R729 1-249-416-11	CARBON METAL OXIDE CARBON	220 0.68 820	5% 5% 5%	1/4W 1W 1/4W	F	C265 C270	1-137-098-11 1-124-564-11 1-137-035-11	ELECT Film	4700MF 0.47MF	10% 20% 10%	100V 25V 100V
R730 1-249-401-11 R731 1-249-423-11 R732 1-249-415-11		47 3.3K 680	5% 5%	1/4W 1/4W 1/4W		C274 C501 C502 C503	1-137-035-11 1-124-927-11 1-124-927-11 1-137-049-11	FILM ELECT ELECT FILM	0.47MF 4.7MF 4.7MF 0.015MF	10% 20% 20% 10%	100V 50V 50V 400V
R733 1-249-415-11 R734 1-249-405-11	CARBON CARBON METAL	680 100 1M 8.2K	5%	1/4W 1/4W 1/4W	D.	C504 C505	1-163-121-00	CRRAMIC CHIP	150PR	5% 5%	50V 50V 250V
R737 1-215-491-00 R739 1-249-417-11	METAL Carbon	820K 1K	1% 5%	1/4W 1/4W	F	C507 C508 C509	1-108-794-11 1-137-102-11 1-137-033-11 1-137-102-11 1-137-098-11 1-161-959-00	FILM FILM FILM	0.33MF 0.022MF 0.1MF	10% 10% 10% 10%	100V 250V 100V
<pre><var 1-230-619-11="" 1-230-641-11="" 1-237-749-11="" 1-237-749-11<="" pre="" rv701="" rv702="" rv703="" rv704="" △=""></var></pre>	HABLE RESISTOR	>				C510 C511 C512	1-137-098-11	MILAK FILM	0.0033MF	10% 10% 10%	500V 100V 100V
RV701 1-230-641-11 RV702 1-230-619-11 RV703 1-237-749-11 RV704 1-237-749-11	RES, ADJ, MET RES, ADJ, MET RES, ADJ, CAR RES. ADJ. CAR	AL GLA AL GLA BON 22 BON 22	ZE 2.2 ZE 110 00 00	M M		C513 C514 C515	1-163-125-00 1-137-031-11 1-124-903-11	CERAMIC CHIP	220PF 0.22MF	5% 10% 20%	50 V 100 V 50 V
***********	**************************************	+++++	+++++	*****	******	C516 C517 C518 C519	1-108-680-11 1-124-252-00 1-124-902-00	MYLAR Elect	1MF 0.001MF 0.33MF 0.47MF 0.47MF	10% 20% 20% 5%	100V 50V 50V 50V
4-200-001-01	**************************************	****				C520	1-164-161-11	CERAMIC CHIP	U UU55ME	10%	50V 100V
4-201-023-01 *4-341-751-01 *4-341-752-01 *4-368-683-01	SPACER, INSUL EYELET EYELET SPRING	ATING			********	C521 C522 C523 C524	1-137-098-11 1-124-122-11 1-108-680-11 1-108-798-11	ELECT Mylar Mylar	100MF 0.001MF 0.0033MF	20% 10% 5%	50V 100V 50V
	ACITOR>					C525 C526 C527 C531	1-163-117-00 1-163-103-00 1-137-098-11 1-124-190-00	CERAMIC CHIP CERAMIC CHIP FILM ELECT	100PF 27PF 0.1MF 680MF	5% 5% 10% 10%	50V 50V 100V 25V
C002 1-163-205-00 C003 1-124-925-11 C004 1-124-120-11	ELECT	2.2MF 220MF		5% 20% 20%	50V 50V 16V	C532	1-124-122-11 1-137-096-11	ELECT FILM	100MF 0.068MF	20% 10%	50V 100V
C005 1-124-903-11 C008 1-163-117-00 C009 1-163-117-00	CERAMIC CHIP	100PF		20% 5% 5% 20%	50V 50V 50V	C534 C536 C537 C538	1-124-120-11 1-131-365-00 1-124-903-11 1-108-680-11	ELECT TANTALUM ELECT MYLAR	220MF 10MF 1MF 0.001MF	20% 10% 20% 10%	16V 16V 50V 100V
C010 1-124-120-11 C011 1-163-031-11 C013 1-137-098-11 C014 1-137-098-11	CERAMIC CHIP FILM	220MF 0.01MF 0.1MF 0.1MF		20% 10% 10%	16V 50V 100V 100V	C539 C540 C592	1-163-129-00 1-163-009-11 1-124-122-11	CERAMIC CHIP CERAMIC CHIP ELECT	330PF 0.001MF 100MF	5% 10% 20%	50V 50V 50V
C015 1-124-902-00 C016 1-163-141-00 C017 1-137-098-11	RLECT CERAMIC CHIP	0.47MF	IF	20% 5% 10%	50V 50V 100V	C593 C601 ⚠	1-163-129-00 1-161-964-61 .1-161-964-61	CERAMIC CHIP CERAMIC CERAMIC		5%	50V 250V 250V
C018 1-163-127-00 C019 1-137-094-11	CERAMIC CHIP FILM	270PF 0.047M	F	5% 10%	50V 100V	C603 A C604 A C605	. 1-161-964-61 . 1-125-318-11 . 1-124-484-11	CERAMIC ELECT (BLOCK) ELECT	0.0047MF 220MF 220MF	20% 20%	250V 400V 35V
C021 1-163-117-00 C023 1-163-117-00 C024 1-163-117-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF		5% 5% 5%	50V 50V 50V	C606 C607	1-163-137-00 1-137-028-11	CERAMIC CHIP	680PF 1MF	5% 10%	50V 63V

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.



C608
Color Colo
Color -1-28-142-11 ELECT 1500MF 20% 250V 250V 250V 2610 -1-24-122-11 ELECT 100MF 20% 500V 2610 -1-24-122-11 ELECT 100MF 20% 2610 -1-24-347-00 ELECT 2200MF 20% 160V 2621 -1-24-347-00 ELECT 100MF 20% 160V 2622 -1-28-320-11 ELECT 2200MF 20% 160V 2622 -1-24-347-00 ELECT 2200MF 20% 160V 2622 -1-24-347-00 ELECT 2200MF 20% 160V 2622 -1-24-347-00 ELECT 2200MF 20%
C618
C621 1-136-173-00 ELECT 100MF 20% 160V 160V 124-910-11 ELECT 100MF 20% 50V 160V 160
C623
C625
C631 1-103-009-11 CERAMIC CHIP 0.001MF 10% 50V
C801 1-126-105-11 ELECT 1000MF 20% 35V D007 8-719-982-08 D10DE MTZJ-3.9B C802 1-102-030-00 CERAMIC 330PF 10% 500V D009 8-719-109-89 D10DE MTZJ-6.2B C804 1-123-948-00 ELECT 22MF 20% 250V D010 8-719-921-54 D10DE MTZJ-6.2B D012 8-719-911-19 D10DE ISS119 D102 8-719-911-19 D10DE ISS119 D102 R05-62-82 D102 R05-
C804 1-123-948-00 ELECT 22MF 20% 250V D010 8-719-921-54 D10DE MTZJ-6.2B D011 8-719-921-54 D10DE MTZJ-6.2B D012 8-719-911-19 D10DE ISS119 D10DE ISS119 D10DE ISS119 D10DE MTZJ-6.2B D012 8-719-911-19 D10DE MTZJ-6.2B D012 MTZJ-6.2B D012 8-719-911-19 D10DE MTZJ-6.2B D012 MTZJ-6.2B D012 8-719-911-19 D10DE MTZJ-6.2B D012 8-719-911-19 D10DE MTZJ-6.2B D012 8-719-911-19 D10DE MTZJ-6.2B D102 MTZJ-6.2B D012 8-719-911-19 D10DE MTZJ-6.2B D012 8-719-911-19 D10DE MTZJ-6.2B D012 8-719-911-19 D10DE MTZJ-6.2B D102 MTZJ-6.2B
C806 1-137-098-11 FILM 0.1MF 10% 100V C807 1-106-395-00 MYLAR 0.15MF 10% 200V C810 1-123-024-21 ELECT 33MF 160V D271 8-719-921-88 D10DE MTZJ-13B D271 8-719-911-19 D10DE ISS119 D271 8-719-911-19 D10DE ISS119 D271 8-719-911-19 D10DE ISS119 D272 8-719-911-19 D10DE ISS119 D272 8-719-911-19 D10DE ISS119 D504 8-719
C810 1-123-024-21 ELECT 33MF 160V D271 8-719-921-88 D10DE M7ZJ-13B C811 1-136-113-00 FILM 2MF 5% 200V D272 8-719-911-19 D10DE 1SS119 C812 1-124-634-11 ELECT 1MF 20% 250V D501 8-719-911-19 D10DE 1SS119 D504 8-719-911-55 D10DE U05G C813 1-102-212-00 CERAMIC 820PF 10% 500V C814 \(\text{A} \) 1-161-731-51 CERAMIC 0.001MF 10% 2KV D506 8-719-800-76 D10DE 1SS226 C815 1-136-111-00 FILM 1MF 5% 200V D508 8-719-911-19 D10DE 1SS119 C817 \(\text{A} \) 1-136-565-11 FILM 0.015MF 3% 1.4KV D509 8-719-911-19 D10DE 1SS119 C818 \(\text{A} \) 1-129-721-51 FILM 0.039MF 10% 630V D511 8-719-911-55 D10DE U05G D512 8-719-911-55 D10DE U05G C820 1-137-046-11 FILM 0.0082MF 10% 400V D513 8-719-010-34 D10DE UZ-4.7BSC C821 \(\text{A} \) 1-162-116-51 CERAMIC 680PF 10% 2KV D601 \(\text{A} \) 8-719-510-63 D10DE D4SB60L-F C822 1-163-005-11 CERAMIC CHIP 470PF 10% 50V D602 8-719-300-33 D10DE RU-3AM
C813 1-102-212-00 CERAMIC 820PF 10% 500V C814 \(\text{\$\Lambda\$}\) 1-161-731-51 CERAMIC 0.001MF 10% 2KV D506 8-719-800-76 D10DE 1SS226 C815 1-136-111-00 F1LM 1MF 5% 200V D508 8-719-911-19 D10DE 1SS119 C817 \(\text{\$\Lambda\$}\) 1-136-565-11 F1LM 0.015MF 3% 1.4KV D509 8-719-911-19 D10DE 1SS119 C818 \(\text{\$\Lambda\$}\) 1-129-721-51 F1LM 0.039MF 10% 630V D511 8-719-911-55 D10DE U05G D512 8-719-911-55 D10DE U05G C820 1-137-046-11 F1LM 0.0082MF 10% 400V D513 8-719-010-34 D10DE UZ-4.7BSC C821 \(\text{\$\Lambda\$}\) 1-162-116-51 CERAMIC 680PF 10% 2KV D601 \(\text{\$\Lambda\$}\) 8-719-510-63 D10DE D4SB60L-F C822 1-163-005-11 CERAMIC CHIP 470PF 10% 50V D602 8-719-300-33 D10DE RU-3AM
C819 A 1-161-731-51 CERAMIC 0.001MF 10% 2KV C820 1-137-046-11 FILM 0.0082MF 10% 400V D513 8-719-010-34 DIODE UZ-4.7BSC C821 A 1-162-116-51 CERAMIC 680PF 10% 2KV D601 A 8-719-510-63 DIODE D4SB60L-F C822 1-163-005-11 CERAMIC CHIP 470PF 10% 50V D602 8-719-300-33 DIODE RU-3AM
C819 A 1-161-731-51 CERAMIC 0.001MF 10% 2KV C820 1-137-046-11 FILM 0.0082MF 10% 400V D513 8-719-010-34 DIODE UZ-4.7BSC C821 A 1-162-116-51 CERAMIC 680PF 10% 2KV D601 A 8-719-510-63 DIODE D4SB60L-F C822 1-163-005-11 CERAMIC CHIP 470PF 10% 50V D602 8-719-300-33 DIODE RU-3AM
C819 A 1-161-731-51 CERAMIC 0.001MF 10% 2KV C820 1-137-046-11 FILM 0.0082MF 10% 400V D513 8-719-010-34 DIODE UZ-4.7BSC C821 A 1-162-116-51 CERAMIC 680PF 10% 2KV D601 A 8-719-510-63 DIODE D4SB60L-F C822 1-163-005-11 CERAMIC CHIP 470PF 10% 50V D602 8-719-300-33 DIODE RU-3AM
C822 1-163-005-11 CERAMIC CHIP 470PF 10% 50V D602 8-719-300-33 DIODE RU-3AM
! D604
C824 1-102-212-00 CERAMIC 820PF 10% 500V 1 C825 1-137-102-11 FILM 0.022MF 10% 250V 1 D605 8-719-911-55 D10DF 105G
C1602 41-136-519-11 FILM 0.47MF 20% 300V D607 8-719-300-33 D10DE RU-3AM
C1605 \$1-164-246-61 CERANIC 0.0022MF 20% 400V
C1607 A 1-161-964-61 CERAMIC : 0.0047MF 250V D610 8-719-300-59 DIODE CTU-12S D611 8-719-900-26 DIODE ERD29-08J D612 8-719-300-59 DIODE CTU-12S
<pre></pre>
CF501 1-567-888-11 OSCILLATOR, CERAMIC D616 8-719-921-54 DIODE MTZJ-6.2B D617 8-719-911-19 DIODE ISS119
D618
DI *1-568-881-51 PIN, CONNECTOR 6P D2 *1-568-882-51 PIN, CONNECTOR 7P D621 8-719-982-24 DIODE MT7.1-334
D11 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR D622 8-719-911-19 DIODE ISS119 D12 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR D623 8-719-911-19 DIODE ISS119 D18 *1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH) D624 8-719-911-19 DIODE ISS119
D21 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR D22 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR D23 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR D801 8-719-300-33 DIODE RU-3AM
D31 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR D802 8-719-300-33 DIODE RU-3AM D32 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR D803 8-719-976-64 DIODE RGP02-17



The components identified by shading and mark Δ are critical for safety.

Replace only with part number specified.

	. PART NO.		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
D804 D805 D806 D807	8-719-911-55 8-719-911-55 8-719-945-80 8-719-945-80	DIODE UOSG DIODE UOSG DIODE BRCO6-15S DIODE BRCO6-15S		0008 0009 0010	8-729-120-28	TRANSISTOR 2SC1623-L TRANSISTOR 2SC1623-L TRANSISTOR 2SC1623-L	.5L6	
D808	8~719-900-26 <1C>	DIODE ERD29-08J		Q251 Q261 Q271 Q502 Q505	8-729-120-28	TRANSISTOR 2SC1623-L TRANSISTOR 2SC1623-L TRANSISTOR 2SC1623-L TRANSISTOR 2SA1162-G TRANSISTOR 2SD774-34	.51.6	
1 C001 1 C002 1 C003 1 C005 1 C251	8-759-047-60 8-759-000-47 8-759-945-58 8-759-748-56 8-759-988-94	IC SDA20560-A012 IC MC14051BCP IC RC4558P IC SDA2546 IC TDA2050		0506 0507 0598 0601	8-729-140-97 8-729-216-22 8-729-216-22	TRANSISTOR 2SB734-34 TRANSISTOR 2SA1162-6 TRANSISTOR 2SA1162-6 TRANSISTOR 2SA1220A- TRANSISTOR 2SD1548-L	1	
I C261 I C501 I C502	4-812-134-00 8-759-988-94 4-812-134-00 8-759-970-73 8-759-944-57	RIVET NYLON, 3.5; IC261 IC TEA2028B IC TDA8170		Q602 Q603 Q604 Q605 Q606 Q606	8-729-122-03 8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR 2SD1548-L TRANSISTOR 2SA1220A- TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L TRANSISTOR 2SC1623-L TRANSISTOR 2SD2096-E	-P : :5L6 :5L6	
1 C608	8-759-929-62	IC LM7812CT		Q609 Q801	8-729-120-28 8-729-320-62 8-729-120-28	TRANSISTOR 2SC1623-L TRANSISTOR 2SD789-34 TRANSISTOR 2SC1623-1	.5L6 .5L6	
L501 L601	1-408-225-00 1-420-872-00	INDUCTOR 3.3UH COIL, AIR CORE			<res< td=""><td>ISTOR></td><td></td><td></td></res<>	ISTOR>		
L602 L603 L604	1-410-396-41 1-410-396-41 1-410-671-31	FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR INDUCTOR 47UH		JR1 JR3	1-216-296-00 1-216-296-00	METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/8W 1/8W
L605 L606	1-459-585-11 1-412-529-11	COIL (WITH CORE) (DRUM TYPE) INDUCTOR 22UH		JR4 JR7 R001	1-216-295-00 1-216-296-00 1-216-041-00	METAL GLAZE O METAL GLAZE O METAL GLAZE 470	5% 5% 5%	1/10W 1/8W 1/10W
L803 L804	1-459-104-00 1-408-239-00	COIL, WITH CORE INDUCTOR 4.7MMH		R002 R003	1-216-041-00 1-216-198-00 1-216-049-00	METAL GLAZE 470 METAL GLAZE 1K METAL GLAZE 1K	5% 5% 5%	1/10W 1/8W 1/10W
L805 L806 L809	1-459-755-12 1-459-111-00 1-420-872-00	COIL, HORIZONTAL LINEARITY COIL, DRAM CORE (CDI) COIL, AIR CORE		R005 R006	1-216-081-00 1-216-073-00	METAL GLAZE 22K METAL GLAZE 10K	5% 5%	1/10W 1/10W
L810 Z	1-421-982-12 <tra< td=""><td>INDUCTOR 3.3UH COIL, AIR CORE FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR INDUCTOR 47UH COIL (WITH CORE) (DRUM TYPE) INDUCTOR 22UH INDUCTOR 47UH COIL, WITH CORE INDUCTOR 4.7MMH COIL, HORIZONTAL LINEARITY COIL, DRAM CORE (CDI) COIL, AIR CORE PMC NSFORMER> LFT LFT LFT LFT</td><td></td><td>R007 R008 R009 R010 R012</td><td>1-216-065-00 1-216-073-00 1-216-073-00 1-216-041-00 1-216-073-00</td><td>METAL GLAZE 4.7K METAL GLAZE 10K METAL GLAZE 10K METAL GLAZE 470 METAL GLAZE 10K</td><td>5% 5% 5% 5%</td><td>1/10W 1/10W 1/10W 1/10W 1/10W</td></tra<>	INDUCTOR 3.3UH COIL, AIR CORE FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR INDUCTOR 47UH COIL (WITH CORE) (DRUM TYPE) INDUCTOR 22UH INDUCTOR 47UH COIL, WITH CORE INDUCTOR 4.7MMH COIL, HORIZONTAL LINEARITY COIL, DRAM CORE (CDI) COIL, AIR CORE PMC NSFORMER> LFT LFT LFT LFT		R007 R008 R009 R010 R012	1-216-065-00 1-216-073-00 1-216-073-00 1-216-041-00 1-216-073-00	METAL GLAZE 4.7K METAL GLAZE 10K METAL GLAZE 10K METAL GLAZE 470 METAL GLAZE 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
LF160 LF160: LF160: T601 T602	1 A 1-421-866-12 2 Â 1-421-776-21 3 A 1-421-862-11 A 1-450-038-11 À 1-424-277-11	LFT LFT LFT S.R.T TRANSFORMER, TRIGGER PULSE		R013 R014 R015 R016 R017	1-216-073-00 1-216-085-00 1-216-061-00 1-216-085-00 1-216-689-11	METAL GLAZE 3.3K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
T801 T802	∆1-437-090-21 ∆1-439-416-51	HDT TRANSFORMER ASSY, FLYBACK (UX-1	650)	R018 R019	1-216-095-00 1-216-025-00		5%	1/10W 1/10W
		LINK>		R020 R021 R022	1-216-025-00 1-216-065-00 1-216-065-00	METAL GLAZE 100 METAL GLAZE 4.7K METAL GLAZE 4.7K	5%	1/10W 1/10W 1/10W
PS601 PS602 PS603 PS604	<u>A</u> 1-532-984-91 <u>A</u> 1-532-984-91 <u>A</u> 1-532-679-91 <u>A</u> 1-532-984-91	LINK, IC 2A LINK, IC 2A LINK, IC 0.6A LINK, IC 2A		R024 R025 R026 R027 R028	1-216-073-00 1-216-073-00 1-216-182-00 1-216-025-00 1-216-025-00		5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W
0001	<tra< td=""><td>NSISTOR></td><td></td><td>R029</td><td>1-216-073-00</td><td></td><td>- 1.</td><td>1/10W</td></tra<>	NSISTOR>		R029	1-216-073-00		- 1.	1/10W
4001 4002 4003 4004 4005	8-729-901-01 8-729-901-01 8-729-216-22 8-729-216-22 8-729-901-01	TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2SC1623-L5L6		R030 R031 R032 R033	1-216-073-00 1-216-081-00 1-216-073-00 1-216-073-00	METAL GLAZE 10K	5% 5%	1/10W 1/10W 1/10W 1/10W
9006 9007	8-729-901-01 8-729-120-28	TRANSISTOR DTC144EK TRANSISTOR 2SC1623-L5L6		R034 R035 R036	1-216-077-00 1-216-081-00 1-216-083-00	METAL GLAZE 15K METAL GLAZE 22K METAL GLAZE 27K	5%	1/10W 1/10W 1/10W



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R037 R038	1-216-069-00 1-216-069-00	METAL GLAZE METAL GLAZE	6.8K 6.8K		1/10W 1/10W		R261	1-216-065-00	METAL GLAZE	4.7K	5 %	1/10W
R039 R040 R041	1-216-081-00 1-216-077-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 15K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R262 R263 R264 R265	1-216-039-00 1-216-073-00 1-216-357-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE	390 10K 4.7 10K	5% 5% 5%	1/10W 1/10W 1W F 1/10W
R042 R043 R044	1-216-049-00 1-216-041-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 470 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R266 R267	1-216-115-00 1-216-077-00	METAL GLAZE METAL GLAZE	560K 15K	5% 5%	1/10W 1/10W
R045 R046	1-216-061-00 1-216-095-00	METAL GLAZE METAL GLAZE	3.3K 82K		1/10W 1/10W		R268 R269 R270	1-215-869-11 1-216-065-00 1-216-073-00	METAL OXIDE METAL GLAZE METAL GLAZE	1 K 1 K 4.7 K 10 K	5% 5% 5% 5%	1/10W 1W F 1/10W 1/10W
R047 R048 R049	1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R271	1-216-045-00 1-216-073-00	METAL GLAZE	680 10K		1/10W 1/10W
R050 R051	1-216-067-00	METAL GLAZE	5.6K 470		1/10W 1/10W		R273 R274 R500	1-216-073-00 1-216-073-00 1-216-115-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 560K	5% 5% 5% 5%	1/10W 1/10W 1/10W
R052 R053 R054 R055	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5%	1/10W 1/10W 1/10W		R501 R502	1-216-041-00 1-216-033-00	METAL GLAZE	470 220		1/10W 1/10W
R056 R057	1-216-037-00 1-216-073-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	330 10K 100	5% 5% 5%	1/10W 1/10W 1/10W		R503 R504 R505	1-216-035-00 1-249-420-11 1-216-077-00	METAL GLAZE CARBON METAL GLAZE	270 1.8K 15K	5% 5% 5% 5%	1/10W 1/4W 1/10W
R058 R059 R060	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R506 R509 R510	1-216-071-00 1-216-063-00 1-216-067-00	METAL GLAZE	8.2K 3.9K 5.6K	5%	1/10W 1/10W
R061 R062	1-216-065-00	METAL GLAZE	4.7K		1/10W 1/10W		R514 R515 R517	1-216-033-00 1-216-061-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 3.3K 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R063 R064 R065	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R518 R519	1-216-089-00 1-216-081-00	METAL GLAZE METAL GLAZE	47K 22K	5% 5%	1/10W 1/10W 1/10W
R066 R067	1-216-049-00 1-216-073-00	METAL GLAZE METAL GLAZE	1 K 10 K		1/10W 1/10W		R520 R521 R522	1-216-037-00 1-216-025-00 1-215-469-00	METAL GLAZE METAL GLAZE METAL	330 100 100K	5% 5% 1%	1/10W 1/10W 1/4W
R068 R069 R070	1-216-174-00 1-216-174-00 1-216-198-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 100 1K	5%%%%% 5%%%%%% 5%%%%%%%%%%%%%%%%%%%%%%	1/8W 1/8W 1/8W		R523 R524	1-216-049-00 1-216-057-00	METAL GLAZE METAL GLAZE	1K 2.2K	5% 5%	1/10W 1/10W
R071 R072	1-216-198-00	METAL GLAZE	1 K 10 K		1/8W		R525 R526 R527	1-216-049-00 1-249-409-11 1-216-077-00	METAL GLAZE Carbon Metal Glaze	1K 220 15K	5% 5% 5%	1/10W 1/4W F 1/10W
R073 R075 R076 R077	1-216-073-00 1-216-041-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 470 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R528 R529	1-216-031-00 1-216-069-00	METAL GLAZE METAL GLAZE	180 6.8K	5% 5% 5%	1/10W 1/10W
R078 R079	1-216-049-00 1-216-198-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K	5% 5%	1/10W 1/8W		R530 R531 R532	I-249-448-11 I-216-099-00 I-216-049-00	CARBON METAL GLAZE METAL GLAZE	1.2 120K 1K	5% 5% 5%	1/4W F 1/10W 1/10W
R080 R081 R083	1-216-073-00 1-216-073-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K 1K	5% 5% 5%	1/10W 1/10W 1/10W		R533 R534	1-216-295-00 1-216-119-00	METAL GLAZE	0 820K	5% 5%	1/10W 1/10W
R084 R085	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K 1 K		1/10W 1/10W 1/10W		R535 R536 R537	1-249-749-00 1-216-129-00 1-216-083-00	CARBON METAL GLAZE METAL GLAZE	2.2M 2.2M 27K	5% 5% 5%	1/4W 1/10W 1/10W
R086 R087 R088	1-216-049-00 1-216-035-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 270 2.7K	5%%%%% 5%%%%% 5%%	1/10W 1/10W 1/10W 1/10W		R538 R539 R540	1-216-101-00 1-216-101-00 1-216-013-00	METAL GLAZE METAL GLAZE	150K 150K	5% 5%	1/10W 1/10W
R093 R094	1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE	10K 10K	5% 5%	1/10W 1/10W 1/10W		R541 R542	1-216-091-00 1-216-308-00	METAL GLAZE METAL GLAZE METAL GLAZE	33 56K 4.7	5% 5% 5% 5%	1/10W 1/10W 1/10W
R095 R096 R098	1-216-073-00 1-216-073-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R543 R544 R545	1-249-451-11 1-247-745-11 1-216-081-00	CARBON CARBON METAL GLAZE	2.2 330 22K	5% 5% 5%	1/4W 1/2W 1/10W
R251 R252 R253	1-216-065-00 1-216-039-00	METAL GLAZE METAL GLAZE	4.7K 390		1/10W 1/10W		R546 R547	1-216-083-00 1-216-061-00	METAL GLAZE METAL GLAZE	27K 3.3K	5% 5% 5%	1/10W 1/10W
R253 R254 R255	1-216-073-00 1-216-357-00 1-216-073-00	METAL GLAZE METAL OXIDE METAL GLAZE	10K 4.7 10K	5% 5% 5% 5%	1/10W	F	R548 R549 R550	1-216-349-00 1-216-454-11 1-216-095-00	METAL OXIDE METAL OXIDE METAL GLAZE	1 390 82K	5% 5% 5%	1W F 2W F 1/10W
R256 R257	1-216-115-00 1-216-077-00	METAL GLAZE METAL GLAZE	560K 15K	5% 5%	1/10W 1/10W	_	R551 R553	1-216-129-00 1-215-869-11	METAL GLAZE METAL OXIDE	2.2M 1K	5% 5%	1/10W 1W
R258 R259	1-215-869-11 1-216-065-00	METAL OXIDE METAL GLAZE	1K 4.7K	5% 5%	1W 1/10W	F	R554 R555	1-216-037-00 1-216-129-00	METAL GLAZE METAL GLAZE	330 2.2M	5% 5%	1/10W 1/10W



The components identified by shading and mark Δ are critical for safety.

Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART N	10.	DESCRIPTION				REMARK
R556 R557 R558 R559 R560	1-216-025-00 1-216-065-00 1-216-113-00 1-216-069-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 4.7K 470K 6.8K 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R16027	1-249- 1-246- 1-244-	451-11 513-75 945-91	METAL GLAZE CARBON CARBON	1 M	5% 5% 5%	1/10W 1/4W 1/4W 1/2W	
R591 R592 R593 R594 R597	1-216-047-00 1-216-049-00 1-216-053-00 1-216-071-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	820 1K 1.5K 8.2K 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1604 / R1605 / R5501 R5503	1-217- 1-246- 1-218- 1-216- 1-216- 1-216- 1-216-	265-91 073-00 308-00	WIREWOUND CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 8.2M 10K	10% 5% 5% 5% 5%	7W 1/4W 1W 1/10W 1/10W 1/10W	.
R598 R600 R601 R603 R604	1-215-900-11 1-249-381-11 1-216-353-00 1-216-469-11 1-216-025-00	METAL OXIDE CARBON METAL OXIDE METAL OXIDE METAL GLAZE	22K 1 2.2 12 100	5% 5% 5% 5%		म म म	R5505 RV501	1-216-	-001-00 < v ar	METAL GLAZE IABLE RESISTO RES, ADJ, CA	10 R>	5%	Î/ÎŎŴ	
R605 R606 R607 R608 R609	1-216-081-00 1-216-051-00 1-216-065-00 1-216-488-11 1-216-007-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE	22K 1.2K 4.7K 18K 18	5% 5% 5% 5%	1/10W 1/10W 1/10W 3W 1/10W	F	RV502	1-238-	·016-11 ·011-11	RES, ADJ, CA RES, ADJ, CA RK GAP>	RBON 10K			
R610 R611 R612 R613 R614	1-244-941-00 1-216-015-00 1-216-049-00 1-216-097-00 1-205-758-11	CARBON METAL GLAZE METAL GLAZE METAL GLAZE WIREWOUND	680K 39 1K 100K 100	5% 5% 5% 5% 10%	1/2W 1/10W 1/10W 1/10W 1/10W	F			<the< td=""><td>GAP, SPARK RMISTOR> THERMISTOR,</td><td>DOCITIV</td><td>D.</td><td></td><td></td></the<>	GAP, SPARK RMISTOR> THERMISTOR,	DOCITIV	D.		
R616 R617 R618 R619 R620	1-216-099-00 1-216-037-00 1-216-431-11 1-216-073-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE METAL GLAZE	120K 330 560 10K 22K	5% 5% 5% 5% 5%	1/10W 1/10W 1W 1/10W 1/10W	F	*****	******	*****	**************************************	******* PLETE		*****	k*******
R621 R622 R623 R624 R625	1-216-077-00 1-216-073-00 1-216-081-00 1-216-067-00 1-215-865-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE	15K 10K 22K 5.6K 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	F	C1 C2	1-163-	-101-11 -038-00	CERAMIC CHIP			20%	16V 25V
R626 R628 R629 R631 R633	1-216-037-00 1-216-001-00 1-216-037-00 1-216-465-11 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE	330 10 330 27K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 2W 1/10W		C3 C4 C5 C6 C10	1-163- 1-124- 1-163- 1-163-		ELECT CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP	220MF 0.1MF 0.1MF		20 % 20 %	16V 50V 16V 25V 25V
R634 R635 R636 R643 R651	1-216-430-11 1-216-073-00 1-216-073-00 1-217-189-21 1-216-025-00	METAL OXIDE METAL GLAZE METAL GLAZE WIREWOUND METAL GLAZE	390 10K 10K 0.12 100	5% 5% 5% 5%	1W 1/10W 1/10W 2W 1/10W	F	C11 C12 C13 C14 C15	1-163- 1-163- 1-124- 1-124-	-927-11 -927-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT ELECT	0.1MF 0.1MF 4.7MF 4.7MF		20% 20%	25V 25V 25V 50V 50V
R653 R802 R805 R806 R807	1-205-758-11 1-249-443-11 1-249-448-11 1-216-093-00 1-217-778-11	WIREWOUND CARBON CARBON METAL GLAZE FUSIBLE	100 0.47 1.2 68K 1K	10% 5% 5% 5% 5%	10W 1/4W 1/4W 1/10W 1W	म म म	C16 C17 C18 C26 C27	1-163- 1-163- 1-163-	-141-00 -141-00 -141-00 -038-00 -117-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF 0.001MF 0.1MF 100PF		5% 5% 5% 5%	50V 50V 50V 25V 50V
R809 R810 R811 R812 R815	1-202-821-11 1-202-818-00 1-215-882-00 1-249-494-11 1-215-884-11	SOLID SOLID METAL OXIDE CARBON METAL OXIDE	1.8K 1K 22 68K 47	10% 10% 5% 5%	1/2W 1/2W 2W 1/2W 2W	ч Э	C28 C29 C32 C33	1-163- 1-163-	-117-00 -117-00 -038-00 -038-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF 0.1MF		5% 5%	50V 50V 25V 25V
R816 R817 R820 R821	1-215-868-00 1-216-049-00 1-249-403-11 1-247-725-11 1-217-778-61	METAL OXIDE METAL GLAZE CARBUN CARBON FUSIBLE	680 1K 68 10K	5% 5% 5% 5%	1W 1/10W 1/4W 1/4W 1W	F	CNV1 CNV2	*1~565- *1~565-	-393-11	NECTOR> CONNECTOR, B CONNECTOR, B	OARD TO OARD TO	BOARD BOARD		
R825 R826 R827 R828	1-216-345-11 1-216-097-00 1-216-073-00 1-216-059-00	METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE	0.47 100K 10K 2.7K	5% 5% 5%	1W 1/10W 1/10W 1/10W	F	D1 D3			DE> DIODE RD5.6M DIODE DAP202				

The components identified by shading and mark Λ are critical for safety.
Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
D4 D5		DIODE MAI52WH DIODE DAP202H	ζ,				R6	1-216-001-00	METAL GLAZE	10	5%	1/100	J
D6 D7 D9	8-719-400-18 8-719-105-52 8-719-106-17	DIODE MA152WH DIODE RD3.6M- DIODE RD6.8M-	-B2 -B2 -B2				R7 R8 R9 R02 R10	1-216-083-00 1-216-071-00 1-216-308-00 1-216-214-00 1-218-325-11	METAL GLAZE METAL GLAZE METAL GLAZE	27K 8.2K 4.7 4.7K 120	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W 1/4W)
IC1 IC2 IC3	8-759-045-54	IC SDA20162-E IC SAA5246P/E IC FCB61C65L-	002 C/M4A				R11 R12 R13 R14 R15	1-218-325-11 1-218-325-11 1-216-025-00 1-216-001-00 1-216-013-00	METAL GLAZE METAL GLAZE METAL GLAZE	120 120 100 10 33	5% 5% 5% 5% 5%	1/4W 1/4W 1/10W 1/10W 1/10W)
	<c01< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1-216-013-00 1-216-013-00</td><td>METAL GLAZE</td><td>33 33</td><td>5% 5%</td><td>1/10W 1/10W</td><td></td></c01<>							1-216-013-00 1-216-013-00	METAL GLAZE	33 33	5% 5%	1/10W 1/10W	
L1 L2 L3 L4	1-408-403-00 1-408-407-00 1-408-407-00 1-408-407-00	I NDUCTOR I NDUCTOR I NDUCTOR I NDUCTOR	3.3l 6.8l 6.8l 6.8l	IH IH IH IH			1	1-216-025-00 1-216-025-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 100 470	5% 5% 5% 5%	1/104 1/104 1/104))
	<1.0	LINK>					R21 R22 R23	1-216-041-00 1-216-168-00 1-216-214-00	METAL GLAZE	470 56	5% 5%	1/10W 1/8W 1/8W	J
PS1 A	∆.1-532-679-91		.				R24 R25	1-216-055-00 1-216-065-00	METAL GLAZE	56 4.7K 1.8K 4.7K	5% 5%	1/10W 1/10W	
	<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td><td>R26 R27</td><td>1-216-049-00 1-216-214-00</td><td>METAL GLAZE METAL GLAZE</td><td></td><td></td><td>1/10W 1/8W</td><td>)</td></tra<>	NSISTOR>					R26 R27	1-216-049-00 1-216-214-00	METAL GLAZE METAL GLAZE			1/10W 1/8W)
Q 1 Q2	8-729-900-53 8-729-920-92	TRANSISTOR DI	C114EK				R28 R34	1-216-067-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE	1K 4.7K 5.6K 4.7K 4.7K	5% 5%	1/10W 1/10W 1/10W	1
Q3 Q4	<pre><tra 8-729-120-28="" 8-729-120-28<="" 8-729-807-87="" 8-729-900-53="" 8-729-920-92="" pre=""></tra></pre>	TRANSISTOR 25 TRANSISTOR 25	C1623-	L5L6 L5L6			R40	1-216-065-00		4.7K 4.7K 4.7K		1/10W	1
Q5 Q6	8-729-807-87 8-729-807-87	TRANSISTUR 25	6B1295- 6B1295-	·UL6 ·UI.6			R41 R42 R44	1-216-065-00 1-216-049-00 1-216-295-00	METAL GLAZE	4.7K 1K 0	5% 5% 5%	1/10W 1/10W 1/10W	1
07 08	8-729-807-87 8-729-120-28	TRANSISTOR 2S TRANSISTOR 2S	B1295- C1623-	-UL6 -L5L6			R46 R47	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	1
		ISTOR>					R49 R50	1-216-065-00 1-216-049-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 1K 0	5% 5% 5%	1/10W 1/10W 1/8W	
JRO1 JRO2	1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/10W 1/10W				IABLE RESISTO				
JRO3 JRO8 JRO9	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/10W 1/10W 1/10W		RVI	1-238-012-11					
JR11 JR14	1-216-295-00 1-216-296-00	METAL GLAZE	0	5% 5%	1/10W 1/8W				STAL>				
	1-216-295-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/10W 1/8W 1/8W		1 14	1-579-266-31 1-577-364-11 ********	VIDENIUE, CE	IMMIC	****	*****	*****
JR20 JR21 JR23	1-216-296-00 1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/8W 1/8W 1/10W		!	*1-638-391-11			a. a. a. a. a. a.		
JR24 JR25	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/8W			<cap< td=""><td>ACITOR></td><td></td><td></td><td></td><td></td></cap<>	ACITOR>				
JR26 JR201	1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/10W		C1651	1-102-106-00	CERAMIC	100PF		10%	50V
JR204 JR207 JR208	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/10W 1/10W 1/10W		C1652 C1653 C1655	1-102-106-00 1-102-074-00 1-102-074-00	CERAMIC CERAMIC CERAMIC	100PF 0.001M 0.001M		10% 10% 10%	50V 50V 50V
JR211 JR213	1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE	0		1/10W 1/10W				NECTOR>	3. 	-	- 414	
JR219 JR220	1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE	0	5% 5% 5% 5%	1/8W 1/10W			*1-568-881-51	PIN, CONNECTO		_		
JR223 R1	1-216-295-00 1-218-326-11	METAL GLAZE METAL GLAZE	0 4 70		1/10W 1/2W		H1-4 :	1-568-678-11 *1-568-879-51 1-562-837-11	TERMINAL BLOOPIN, CONNECTOR JACK	JK, S 3 JR 4P	P		
R3 R4 R5	1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE	1K 100	5% 5% 5% 5%	1/10W 1/10W		H1-23	* 1-568-879-51	PIN, CONNECTO				
כת	1-216-047-00	METAL GLAZE	820	5%	1/10W		i H1-43 :	* 1-56 4 -512-11	PLUG, CUNNECT	TUR 9P			

KV-H2511D MDR-IF310/RM-816

H1 H2 J1

REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	ISTOR>				C228 C229 C230	1-137-104-11 1-137-049-11 1-137-049-11			10% 10% 10%	250V 400V 400V
R1651 1-249-413-11 R1652 1-249-413-11 <swi< td=""><td>CARBON CARBON TCH></td><td>470 5% 470 5%</td><td>1/4W 1/4W</td><td></td><td>C231 C232 C233 C234 C235</td><td>1-124-902-00 1-124-907-11 1-163-005-11 1-163-005-11 1-163-005-11</td><td>CERAMIC CHIP</td><td>470PF</td><td>20% 20% 10% 10% 10%</td><td>50V 50V 50V 50V 50V</td></swi<>	CARBON CARBON TCH>	470 5% 470 5%	1/4W 1/4W		C231 C232 C233 C234 C235	1-124-902-00 1-124-907-11 1-163-005-11 1-163-005-11 1-163-005-11	CERAMIC CHIP	470PF	20% 20% 10% 10% 10%	50V 50V 50V 50V 50V
S1651 1-571-532-21 S1652 1-571-532-21 S1653 1-571-532-21	SWITCH, TACT SWITCH, TACT SWITCH, TACT	IL IL IL			C236 C237 C238 C239	1-163-005-11 1-124-902-00 1-163-125-00 1-126-103-11 1-163-018-00	CERAMIC CHIP ELECT CERAMIC CHIP ELECT	470PF 0.47MF 220PF 470MF	10% 20% 5% 20% 10%	50V 50V 50V 16V 50V
*1-638-392-11 *4-374-987-01 *4-381-686-01	H2 BOARD ******** GUIDE, LIGHT BRACKET (B),	LIGHT GUID	E		C241 C242 C243 C244 C245	1-163-018-00 1-163-033-00 1-163-033-00 1-163-033-00 1-163-033-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.022MF 0.022MF 0.022MF	10%	50V 50V 50V 50V 50V
010 01651 8-719-948-31 *4-201-076-01 01652 8-710-048-31	DE> DIODE LD-201 HOLDER, LED;	VR D1651			C1401 C1402 C1403 C1404 C1405	1-124-907-11 1-126-103-11 1-163-003-11 1-137-098-11 1-163-029-11	BLECT ELECT CERAMIC CHIP FILM CERAMIC CHIP	0.1MF	20% 20% 10% 10%	50V 16V 50V 100V 50V
<pre></pre>	HOLDER, LED; DIODE LD-201 HOLDER, LED;	D1652 VR D1654			C1406 C1407 C1408 C1409 C1410	1-137-098-11 1-124-910-11 1-124-122-11 1-126-233-11 1-124-907-11	FILM ELECT ELECT ELECT ELECT	0.1MF 47MF 100MF 22MF 10MF	10% 20% 20% 20% 20%	100V 50V 50V 50V 50V
<cun H2-2 *1-568-882-51</cun 	NECTUR> PIN, CONNECT				C1411 C1412 C1413 C1414 C1415	1-124-907-11 1-124-910-11 1-124-910-11 1-124-907-11 1-137-098-11	ELECT ELECT ELECT ELECT FILM		20% 20% 20% 20% 10%	50V 50V 50V 50V 100V
<1C> IC1651 8-741-101-75 <res< td=""><td></td><td>1</td><td></td><td></td><td>C1416 C1417 C1418 C1419 C1425</td><td>1-137-098-11 1-124-120-11 1-163-003-11 1-163-003-11 1-124-902-00</td><td>FILM ELECT CERAMIC CHIP CERAMIC CHIP</td><td>0.1MF 220MF 330PF</td><td>10% 20% 10% 10% 20%</td><td>100V 16V 50V 50V 50V</td></res<>		1			C1416 C1417 C1418 C1419 C1425	1-137-098-11 1-124-120-11 1-163-003-11 1-163-003-11 1-124-902-00	FILM ELECT CERAMIC CHIP CERAMIC CHIP	0.1MF 220MF 330PF	10% 20% 10% 10% 20%	100V 16V 50V 50V 50V
R1662 1-249-413-11	CARBON	470 5%	1/4W		C1426	1-124-902-00	ELECT	0.47MF	20%	50V
**************************************		MPLETE	******	******	C1428	1-163-029-11 1-163-029-11 1-163-029-11 1-163-003-11	CERAMIC CHIP	0.0047MF 0.0047MF	10%	50V 50V 50V 50V
<cap< td=""><td>ACITOR></td><td></td><td></td><td></td><td>C1431 C1432 C1433</td><td>1-126-529-11 1-124-902-00 1-124-122-11</td><td>ELECT ELECT ELECT</td><td>0.47MF 0.47MF 100MF</td><td>20% 20% 20%</td><td>50V 50V 50V</td></cap<>	ACITOR>				C1431 C1432 C1433	1-126-529-11 1-124-902-00 1-124-122-11	ELECT ELECT ELECT	0.47MF 0.47MF 100MF	20% 20% 20%	50V 50V 50V
C203 1-124-925-11 C205 1-124-927-11	ELECT ELECT	2.2MF	20% 20%	50V 50V	C1436 C1437	1-163-009-11 1-163-009-11	CERAMIC CHIP CERAMIC CHIP	0.001MF	10% 10%	50V 50V
C206 1-124-925-11 C207 1-124-927-11 C213 1-126-233-11	ELECT ELECT ELECT	4.7MF 2.2MF 4.7MF 22MF	20% 20% 20%	50V 50V 50V	C1438 C1439 C1440 C1441	1-137-047-11 1-137-047-11 1-124-907-11 1-124-907-11	FILM FILM ELECT ELECT	0.01MF 0.01MF 10MF 10MF	10% 10% 20% 20%	400V 400V 50V 50V
C214 1-137-045-11 C217 1-137-045-11 C218 1-137-102-11 C219 1-137-102-11 C220 1-108-686-11	FILM FILM FILM FILM MYLAR	0.0068MF 0.0068MF 0.022MF 0.022MF 0.0033MF	10% 10% 10% 10% 10%	400V 400V 250V 250V 100V	C1442 C1443 C1444 C1445	1-137-098-11 1-137-098-11 1-124-910-11 1-102-824-00	FILM FILM BLECT CERAMIC	0.1MF 0.1MF 47MF 470PF	10% 10% 20% 5%	100V 100V 50V 50V
C221 1-108-686-11 C222 1-137-095-11 C223 1-137-095-11 C224 1-137-047-11 C225 1-136-173-00	MYLAR FILM FILM FILM FILM	0.0033MF 0.056MF 0.056MF 0.01MF 0.47MF	10% 10% 10% 10% 5%	100V 100V 100V 400V 50V	C1446 C1501 C1502 C1503 C1504	1-102-824-00 1-124-927-11 1-124-903-11 1-108-680-11 1-124-910-11	CERAMIC BLECT ELECT MYLAR ELECT	470PF 4.7MF 1MF 0.001MF 47MF	5% 20% 20% 10% 20%	50V 50V 50V 100V 50V
C226 1-136-173-00 C227 1-137-102-11	FILM FILM	0.47MF 0.022MF	5% 10%	50V 250V	C1505 C1507	1-137-094-11 1-108-686-11	FILM MYLAR	0.047MF 0.0033MF	10% 10%	100V 100V



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
C1512	1-124-903-11 1-124-903-11 1-124-927-11 1-137-045-11 1-163-105-00	FILM	1MF 1MF 4.7MF 0.0068MF		50V 50V 50V	Q201	<tra 8-729-120-28</tra 	NSISTOR> TRANSISTOR 2S	5C1623-L	.5L6		
	1-137-102-11 1-102-117-00				250V 50V	Q202 Q1401 Q1402 Q1403	8-729-120-28 8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	5A1162-0 5C1623-1	1 1516		
	<010	DE>				Q1404	8-729-216-22	TRANSISTOR 25	SA1162-0	ì		
D201 D202	8-719-110-14 8-719-110-14	DIODE RD9.1E	S-B3				<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td></res<>	ISTOR>				
D205 D206	8-719-110-03 8-719-110-03 8-719-110-03	DIODE RD7.5E DIODE RD7.5E DIODE RD7.5E	S-B2 S-B2 S-B2			R201 R202 R203 R204	1-216-079-00 1-216-206-00 1-216-075-00 1-216-085-00	METAL GLAZE	18K 2.2K 12K 33K	5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W	
D1404	8-719-110-03 8-719-110-03	DIODE RD7.5E	S-B2 S-B2			R205	1-216-085-00	METAL GLAZE	33K		1/10W	
D1406 D1407	8-719-110-03 8-719-110-03 8-719-921-77 8-719-110-14	DIODE RD7.5E DIODE RD7.5E DIODE MTZN-1 DIODE RD9.1E	S-B2 S-B2 OC			R206 R207 R208 R209	1-216-061-00 1-216-061-00 1-216-077-00 1-216-087-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 15K 22K	5% 5%	1/10W 1/10W 1/10W 1/10W	
D1409 D1410	8-719-110-14 8-719-110-14	DIODE RD9.1E DIODE RD9.1E DIODE RD9.1E	S-B3 S-B3			R210	1-216-077-00 1-216-097-00		15K 100K		1/10W 1/10W	
D1418	8-719-110-03 8-719-110-03 8-719-110-03	DIODE RD7.5E DIODE RD7.5E DIODE RD7.5E	S-B2 S-B2 S-B2			R212 R213 R214 R215	1-216-081-00 1-216-077-00 1-216-033-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 15K 220 22K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
D1420 D1421 D1422	8-719-110-03 8-719-110-03 8-719-110-03 8-719-110-03	DIODE RD7.5E DIODE RD7.5E DIODE RD7.5E DIODE RD7.5E	S-B2 S-B2 S-B2			R216 R217 R218	1-216-081-00 1-216-077-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 15K	5% 5% 5%	1/10W 1/10W 1/10W	
D1425	8-719-110-03 8-719-110-03	DIODE RD7.5E	S-B2 S-B2			R220	1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE	10K 2.2K	5%	1/10W 1/10W	
D1501 D1502	8-719-300-33 8-719-911-19	DIODE RD7.5E DIODE RU-3AM DIODE 1SS119	S-B2			R221 R222 R223 R224	1-216-041-00 1-216-041-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 470 1K 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
D1504 D1505 D1506	8-719-911-19 8-719-911-19 8-719-911-19 8-719-982-33	DIONG MILLS	00			1 11 12 1	1-210-033-00	METAL GLAZE	1 K	5% 5%	1/10W 1/10W 1/10W	
	8-719-911-19 8-719-911-19					R228 R229 R230	1-216-033-00 1-216-075-00 1-216-079-00	METAL GLAZE	12K	5%	1/10W 1/10W 1/10W	
	<1C>					R231 R232	1-216-073-00 1-216-073-00		10K	5%	1/10W 1/10W	
I C201	8-759-013-17					R233 R234	1-216-057-00 1-216-057-00	METAL GLAZE METAL GLAZE	2.2K	5% 5%	1/10W 1/10W	
1C1402 1C1403	8-759-946-32 8-759-140-53	IC TEA2014A IC UPD4053BC				R235 R236	1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE			1/10W 1/10W	
101501	8-759-942-16 <con< td=""><td>IC TEA2031A NECTOR></td><td></td><td></td><td></td><td>R240 R241 R242 R243</td><td>1-216-033-00 1-216-091-00 1-216-091-00 1-216-075-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE</td><td>56K</td><td>5% 5%</td><td>1/10W 1/10W 1/10W 1/10W</td><td></td></con<>	IC TEA2031A NECTOR>				R240 R241 R242 R243	1-216-033-00 1-216-091-00 1-216-091-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	56K	5% 5%	1/10W 1/10W 1/10W 1/10W	
J45 ×	1-565-838-11 +1-568-878-51	PIN. CONNECT	DR 3P			R244 R245	1-216-067-00 1-216-075-00	METAL GLAZE METAL GLAZE	5.6K 12K		1/10W 1/10W	
J1-41 = J1-43 =	*1-566-641-11 *1-564-524-11 *1-564-527-11	CONNECTOR, H PLUG. CONNEC	INGE (TAB) TOR 9P	18P		R246 R247 R248	1-216-067-00 1-216-075-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 12K	5% 5%	1/10W 1/10W 1/10W	
JJ-51 ×	*1-566-641-11	CONNECTOR, H	INGE (TAB)	18P		R249 R250	1-216-075-00 1-216-067-00	METAL GLAZE METAL GLAZE	5.6K	5%	1/10W 1/10W	
14 400	<jac< td=""><td></td><td></td><td></td><td></td><td>R1400 R1401 R1402</td><td>1-216-295-00 1-216-023-00 1-216-170-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE</td><td>0 82 68</td><td>5%</td><td>1/10W 1/10W 1/8W</td><td></td></jac<>					R1400 R1401 R1402	1-216-295-00 1-216-023-00 1-216-170-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 82 68	5%	1/10W 1/10W 1/8W	
J1402 J1403	1-561-534-41 1-561-534-41	SOCKET 21P SOCKET 21P					1-216-089-00 1-216-178-00	METAL GLAZE METAL GLAZE	47K	5%	1/10W 1/8W	

KV-H2511D MDR-IF310/RM-816

J1 IFG

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R1407 R1408 R1409	1-216-041-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	27K 470K 47K 470 47K	5% 5% 5% 5%	1/4W 1/10W 1/10W 1/10W 1/10W		i	1-216-190-00 1-216-178-00 1-216-178-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150 5% 150 5% 10K 5%		
R1412 R1413 R1414 R1415	1-216-113-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 47K 470K 47K 27K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		j #1400	1-216-073-00 1-216-073-00 1-216-065-00 1-216-065-00 1-216-081-00 1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5% 4.7K 5% 4.7K 5% 22K 5%	1/10W 1/10W 1/10W	
R1417 R1418 R1419 R1420	1-216-295-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE	27K 82 82 0 0	5% 5% 5%	1/2W 1/10W 1/10W	F	R1503 R1504 R1505 R1506 R1509	1-216-113-00 1-216-085-00 1-216-081-00 1-216-113-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	27K 5% 470K 5% 33K 5% 22K 5% 470K 5% 220K 5%	1/10W	
R1422 R1423 R1424 R1425	1-216-025-00 1-216-083-00 1-216-083-00 1-216-045-00 1-216-025-00	METAL GLAZE	100 27K 27K 27K 680	5% 5% 5%	1/10W 1/10W 1/10W		R1510 R1511 R1512 R1513	1-216-067-00 1-216-049-00 1-216-073-00 1-216-091-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 5% 1K 5% 10K 5% 56K 5%	1/10	
R1428 R1429 R1430 R1431		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 10 470K 470K 68 470 470	52	1/10W 1/10W 1/8W		R1515 R1516 R1517 R1519 R1520	1-216-117-00 1-216-079-00 1-216-033-00 1-216-101-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680K 5% 18K 5% 220 5% 150K 5% 470K 5%	1/10W 1/10W 1/10W	
R1433 R1434 R1437	1-216-033-00 1-249-393-11 1-249-434-11 1-216-045-00	METAL GLAZE CARBON CARBON METAL GLAZE METAL GLAZE	220 10 27K 680	5% 5%	1/4W	F	R1556	1-216-067-00	METAL GLAZE		1/8W 1/10W	
R1442 R1443 R1444 R1445	1-216-089-00 1-216-089-00 1-216-033-00 1-216-095-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 47K 47K 220 82K 220	55555 55555 55555	1/10W 1/10W 1/10W 1/10W		RV1501 RV1502 RV1503 RV1504 RV1505	<pre><var 1-238-009-11<="" 1-238-012-11="" 1-238-016-11="" 1-238-017-11="" 1-238-023-11="" pre=""></var></pre>	RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI	RBON 470K RBON 10K RBON 22K RBON 1K RBON 470K		
R1447 R1448 R1449 R1452	1-216-025-00 1-216-023-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 100 82 1K 1K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV1506 RV1507 RV1508 RV1509	1-238-016-11 1-238-023-11	RES, ADJ, CAN RES, ADJ, CAN RES, ADJ, CAN RES, ADJ, CAN	RBON 22K RBON 220 RBON 10K RBON 470K		
R1454 R1455 R1457	1-216-049-00 1-216-180-00 1-216-180-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	180 180 100	5% 5% 5%	1/8W 1/8W 1/10W			************* *A-1654-004-A	IFG BOARD, CO	OMPLETE	***	*****
R1460 R1461 R1462 R1463	1-216-053-00 1-216-190-00 1-216-057-00 1-216-049-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 470 2.2K 1K 3.3K	5%%%%% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/8W 1/10W 1/10W		C1 C2 C3 C4	<pre><cap 1-163-031-11="" 1-163-031-11<="" pre=""></cap></pre>	ACITOR> CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.01MF		50V 50V 50V 50V
R1465 R1466 R1467 R1468	1-216-023-00 1-216-033-00 1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82 220 100 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C5 C6 C7 C8 C9	1-163-031-11 1-163-031-11 1-124-903-11 1-124-907-11 1-130-471-00	CERAMIC CHIP CERAMIC CHIP ELECT ELECT MYLAR	0.01MF	20% 20% 5%	50V 50V 50V 50V 50V
R1470 R1471 R1472 R1473	1-216-025-00 1-216-023-00 1-216-023-00 1-216-023-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 82 82 82	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C10 C11 C12 C13	1-163-121-00 1-163-119-00 1-136-298-00 1-124-477-11	CERAMIC CHIP CERAMIC CHIP FILM ELECT	150PF 120PF 0.0033MF 47MF	5% 5% 2% 20%	50V 50V 100V 16V
R1476 R1477	1-216-113-00 1-216-089-00 1-216-089-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 47K 47K 470K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C14 C15 C16	1-124-477-11 1-124-477-11 1-124-477-11	ELECT ELECT ELECT	47MF 47MF 47MF	20% 20% 20%	16V 16V 16V

IFG MAIN

REF.NO	. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C17 C18 C19	1-124-907-11 1-137-047-11 1-137-047-11	FILM	10MF 0.01MF 0.01MF	20% 10%	50V 400V	R2 R3	1-216-043-00 1-216-043-00	METAL GLAZE METAL GLAZE	560 5% 560 5%	1/10W 1/10W	
C20 C21	1-137-047-11 1-126-233-11 1-126-233-11	ELECT	0.01MF 22MF 22MF	10% 20% 20%	400V 50V 50V	R5	1-216-045-00 1-216-043-00	METAL GLAZE	680 5% 560 5%	1/10W 1/10W	
C22 C23 C24	1-137-098-11 1-137-031-11 1-124-034-51	FILM	0.1MF 0.22MF 33MF	10% 10% 20%	100V 100V 16V	R7 R9 R11	1-216-043-00 1-216-073-00 1-216-095-00	METAL GLAZE METAL GLAZE METAL GLAZE	560 5% 10K 5% 82K 5%	1/10W 1/10W 1/10W	
C25 C26	1-137-102-11 1-137-094-11	FILM	0.022MF 0.047MF	10% 10%	250V 100V	R12 R13 R15	1-216-097-00 1-216-071-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 5% 8.2K 5% 2.7K 5%	1/10W 1/10W 1/10W	
C27 C28 C29	1-124-903-11 1-163-109-00 1-124-903-11	CERAMIC CHIP ELECT	1MF	20% 5% 20%	50V 50V 50V	R16 R17	1-216-097-00 1-216-097-00	METAL GLAZE METAL GLAZE	100K 5% 100K 5%	1/10W 1/10W	
C30 C31	1-124-903-11 1-137-047-11	FILM	IMF 0.01MF	20% 10%	50V 400V	R18 R19 R20	1-216-063-00 1-216-097-00 1-216-075-00		3.9K 5% 100K 5% 12K 5% 120K 5%	1/10W 1/10W 1/10W	
C32 C33 C34	1-130-479-00 1-163-081-00 1-137-031-11	CERAMIC CHIP FILM	0.0047MF 0.22MF 0.22MF	5% 10%	50V 25V 100V	R22 R24		METAL GLAZE METAL GLAZE	120K 5% 47K 5%	1/10W 1/10W	
C35 C36	1-124-907-11 1-163-119-00	CERAMIC CHIP	10MF 120PF	20% 5%	50V 50V	R25	1-216-077-00	METAL GLAZE	15K 5%	1/10W	
C37 C38 C39	1-124-477-11 1-124-477-11 1-163-133-00	ELECT ELECT CERAMIC CHIP	47MF 47MF 470PF	20% 20% 5%	16V 16V 50V	RV1		IABLE RESISTOR RES, ADJ, CAR			
	<fil< td=""><td>.TER></td><td></td><td></td><td></td><td>RV2</td><td></td><td>RES, ADJ, CAR</td><td>BON 47K</td><td>******</td><td>******</td></fil<>	.TER>				RV2		RES, ADJ, CAR	BON 47K	******	******
CDA1 CDA2	1-404-751-11 1-404-750-11	DISCRIMINATOR DISCRIMINATOR	R, CERAMIC R. CERAMIC				*A-4542-098-A	MAIN BOARD, C	COMPLETE		
SFT1 SFT2	1-527-840-00 1-527-839-00	FILTER, CERAM	(IC				<cap< td=""><td>ACITOR></td><td></td><td></td><td></td></cap<>	ACITOR>			
	<dic< td=""><td>IDE></td><td></td><td></td><td></td><td>C1</td><td>1-126-205-11</td><td></td><td>47MF</td><td>20%</td><td>6.3V</td></dic<>	IDE>				C1	1-126-205-11		47MF	20%	6.3V
D3		DIODE MA152WK	(C2 C3 C4	1-163-031-11 1-163-038-00 1-126-204-11	CERAMIC CHIP CERAMIC CHIP ELECT CHIP	0.01MF	20%	50V 25V 16V
	<10>	•				C5	1-126-204-11		47MF	20%	16V
IC1 IC2 IC3 IC4	8-759-003-90 8-759-003-90 8-759-030-48 8-759-513-48	IC TBA129 IC TBA129 IC TDA6600-2 IC TDA2595/V9)			C6 C7 C8 C9 C11	1-126-204-11 1-126-204-11 1-163-038-00 1-163-031-11 1-163-001-11		0.01MF	20% 20% 10%	16V 16V 25V 50V 50V
	< ("N	INECTOR>				C12 C13	1-163-809-11	CERAMIC CHIP CERAMIC CHIP		5% 10%	25V 50V
IFG13	*1-565-488-11		JARD TO BOA	RD 12P		C14 C15 C16	1-163-001-11 1-126-603-11 1-126-601-11 1-126-205-11	ELECT CHIP ELECT CHIP	4.7MF 2.2MF 47MF	20% 20% 20% 20%	35V 50V 6.3V
	<001	L>				C17	1-164-161-11 1-163-227-11	CERAMIC CHIP CERAMIC CHIP	0.0022MF	10% 5%	50V 50V
L1 L2 L3	1-408-410-00 1-408-410-00 1-410-064-11	INDUCTOR INDUCTOR INDUCTOR	12UH 12UH 2.7MMH			C19 C20 C21	1-163-031-11 1-163-009-11 1-163-109-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.001MF	10% 5%	50V 50V 50V
L4 L5	1-408-421-00 1-408-421-00	INDUCTOR INDUCTOR	100UH 100UH			C22 C23	1-163-095-00 1-163-111-00	CERAMIC CHIP	12PF	5% 5%	50V 50V
	<tr#< td=""><td>NSISTOR></td><td></td><td></td><td></td><td>C24 C25 C30</td><td>1-163-009-11 1-163-251-11 1-126-607-11</td><td>CERAMIC CHIP</td><td>0.001MF</td><td>10% 5% 20%</td><td>50V 50V 4V</td></tr#<>	NSISTOR>				C24 C25 C30	1-163-009-11 1-163-251-11 1-126-607-11	CERAMIC CHIP	0.001MF	10% 5% 20%	50V 50V 4V
Q2 Q3 Q4	8-729-901-00 8-729-216-22 8-729-901-00	TRANSISTOR DT TRANSISTOR 2S TRANSISTOR DT	SA1162-G			C31 C51	1-163-031-11 1-163-001-11	CERAMIC CHIP		10%	50V 50V
		SISTOR>	2			C52 C53 C54	1-163-809-11 1-163-001-11 1-126-603-11	CERAMIC CHIP CERAMIC CHIP	0.047MF	5% 10% 20%	25V 50V 35V
						!					
JR8 JR10 R1	1-216-296-00 1-216-296-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 680 5%	1/8W 1/8W 1/10		C55 C56 C57	1-126-601-11 1-126-205-11 1-164-161-11	ELECT CHIP ELECT CHIP CERAMIC CHIP	2.2MF 47MF 0.0022MF	20% 20% 10%	50V 6.3V 50V

MAIN SW CN

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
C58 C59 C60 C61 C62	1-163-227-11 1-163-031-11 1-163-009-11 1-163-107-00 1-163-093-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.001MF 39PF	5% 10% 5% 5%	50V 50V 50V 50V 50V	R15 R16 R17 R18	1-216-071-00 1-216-073-00 1-216-065-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 10K 4.7K 22K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
C63 C64 C65	1-163-109-00 1-163-009-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	47PF 0.001MF	5% 10% 5%	50V 50V 50V	R19 R20 R21 R22 R24	1-216-025-00 1-216-111-00 1-216-025-00 1-216-057-00 1-216-691-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	100 390K 100 2.2K 47K	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	
CNP1 CNP3 CNP4	<pre><con *1-564-517-11="" *1-564-517-11<="" 1-506-906-11="" pre=""></con></pre>	PLUG, CONNECT	OR 2P			R25 R26 R27 R28 R29	1-216-661-11 1-216-061-00 1-216-022-00 1-216-022-00 1-216-017-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 3.3K 75 75 47	0.50% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
D9 D10 D11	8-719-106-08	DE> DIODE RD2.4M- DIODE RD6.2M- DIODE SVC203C	B2			R51 R52 R53 R54 R55	1-216-053-00 1-216-053-00 1-216-025-00 1-216-089-00 1-216-073-00	METAL GLAZE	1.5K 1.5K 100 47 K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
D51		DIODE SVC203C				R56 R57 R58 R59 R60	1-216-073-00 1-216-065-00 1-216-081-00 1-216-025-00 1-216-111-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 4.7K 22K 100 390K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
L11 L12	<01 1-406-333-11	L>	921111			R61 R62 R64 R65 R66	1-216-025-00 1-216-057-00 1-216-691-11 1-216-661-11 1-216-061-00	METAL GLAZE METAL GLAZE METAL CHIP METAL GLAZE	47K	5% 5% 0.50% 0.50% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
L13 L51 L52 L53	1-412-400-31 1-406-334-11	INDUCTOR COIL (OSC) INDUCTOR CHIP	68UH			R67 R68 R69 R71 R81	1-216-022-00 1-216-022-00 1-216-017-00 1-216-089-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 75 47 47K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td><td><var< td=""><td>IABLE RESISTOR</td><td>></td><td></td><td></td><td></td></var<></td></tra<>	NSISTOR>					<var< td=""><td>IABLE RESISTOR</td><td>></td><td></td><td></td><td></td></var<>	IABLE RESISTOR	>			
Q12 Q13 Q14 Q15 Q52	8-729-216-22 8-729-230-49 8-729-230-49	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1162-G C2712-Y(C2712-Y(RV11 RV51	1-238-989-11 1-238-989-11 ************	RES, ADJ, MET RES, ADJ, MET	AL GLA	ZE 2.2	(*****
Q53 Q54	8-729-216-22 8-729-230-49	TRANSISTOR 2S	C2712-Y				*1-643-141-11	SW BOARD				
Q 55		TRANSISTOR 2S	C2712-Y	i				NECTOR>				
JW2	1-216-296-00	ISTOR> METAL GLAZE	0 !	5% 1/8W		CNP2	*1-564-520-11		OR 5P			
JW3 JW4 JW5 JW6	1-216-295-00 1-216-295-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 1/10V 5% 1/10V 5% 1/8W 5% 1/8W	d)	ICP1 A	<1 C ≥ 1-532-984-11	LINK> SLINK, IC 2A		- 12.1	e jiji da jije i	
JW9 JW8	1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE	0 9	5% 1/8W 5% 1/10V 5% 1/10V		 	<swi< td=""><td>TCH></td><td></td><td></td><td></td><td></td></swi<>	TCH>				
R1 R5 R6	1-216-133-00 1-216-043-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3M 560 560	5% 1/100 5% 1/100 5% 1/100	Ų.	S1 S2	1-570-913-11 1-554-061-00	SWITCH, PUSH SWITCH, SLIDE				
R8 R9 R11	1-216-051-00 1-216-053-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.5K ! 1.5K !	5% 1/100 5% 1/100 5% 1/100	Ŋ Ŋ		************ *1-643-965-11		*****	******	******	******
R12 R13 R14	1-216-053-00 1-216-025-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	100	5% 1/100 5% 1/100 5% 1/100	ı)		<con< td=""><td>NECTOR></td><td></td><td></td><td></td><td></td></con<>	NECTOR>				

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.



REMARK

Dan No	D.10m						
REF.NO.	PART NU.	DESCRIPTION				REMARK	REF.NO. PART NO.
CNP5	1-506-906-11	PIN, CONNECTO	R 5P				1-452-094 1-460-091
		**********	*****	****	******	*******	1-544-727
*	1-643-140-11	LED BOARD					<u></u>
	CLAD	ACITOR>					V901 A.8-733-231
C101		CERAMIC CHIP	0.01MF			50V	**********
C103 C104	1-163-031-11 1-126-395-11	CERAMIC CHIP ELECT CHIP	0.01MF 22MF		20%	50V 16V	ACCE:
	1-163-038-00 1-126-395-11	CERAMIC CHIP ELECT CHIP	0.1MF 22MF		20%	25V 16V	3-755-297-
C107	1-163-038-00	CERAMIC CHIP	0.1MF			25V	*4-034-981 *4-035-035 *4-035-040
	<con< td=""><td>NECTOR></td><td></td><td></td><td></td><td></td><td>*4-380-340⁻ 8-953-467⁻</td></con<>	NECTOR>					*4-380-340 ⁻ 8-953-467 ⁻
CNP101*	1-564-517-11	PLUG, CUNNECT	OR 2P				0 755 401
	<010	DE>					
D102 D103 D104	8-719-992-10 8-719-992-10 8-719-992-10	DIODE IR5BF-A DIODE IR5BF-A DIODE IR5BF-A DIODE IR5BF-A DIODE IR5BF-A					1-465-796 4-031-670
D107	8-719-992-10	DIODE IR5BF-A DIODE IR5BF-A DIODE IR5BF-A					
	<001	L>					
L101	1-412-400-31	INDUCTOR	68UH				
	<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td><td></td></tra<>	NSISTOR>					
Q102 Q103 Q104	8-729-216-22 8-729-140-75	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	D999-C A1162- D999-C	LCK G L ck			
	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td><td></td></res<>	ISTOR>					
R101 R102 R104	1-216-295-00 1-216-022-00 1-216-071-00 1-216-025-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 75 8.2K 100 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		
R107 R108	1-216-003-11 1-216-025-00 1-216-057-00 1-216-003-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	12 100 2.2K 12	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		
	<var< td=""><td>IABLE RESISTOR</td><td>></td><td></td><td></td><td></td><td>1 1 1 1</td></var<>	IABLE RESISTOR	>				1 1 1 1
RV101	1-238-989-11	RES, ADJ, MET	AL GLA	ZE 2.	2K		
******	********	*********	*****	****	******	******	
		CELLANEOUS					

Δ-1-451-311-21 DEFLECTION YOKE (Y25FXA) 1-452-032-00 MAGNET, DISK; 10MM φ 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM ¢
1-460-091-11 COIL DEGAUSS
1-544-727-11 SPEAKER (7.5X13CM)

1-590-501-11 CORD, POWER (WITH NOISE FILTER)
8-913-822-90 TRANSMITTER TMR-D1003 SET

V901 A.8-733-231-05 PICTURE TUBE (A59JWC61X)

DESCRIPTION

ACCESSORIES AND PACKING MATERIALS

3-755-297-11 MANUAL, INSTRUCTION *4-034-981-01 CUSHION (UPPER) (ASSY) *4-035-035-01 CUSHION (LOWER) (ASSY) *4-035-040-01 INDIVIDUAL CARTON *4-380-340-01 BAG, PROTECTION

8-953-467-91 HEADPHONE MDR-IF310/1 SET

REMOTE COMMANDER

1-465-796-11 CONTROL UNIT, REMOTE (RM-816) 4-031-670-01 COVER, POCKET (FOR RM-816)

MEMO

ACCESSORY

MDR-IF310

SPECIFICATIONS

General

Modulation system Carrier frequency Frequency modulation

Right 2.8 MHz

Effective range

Left 2.3 MHz Up to approx. 7 m

(23 ft.)

Frequency response

Distortion

18 – 22,000 Hz Less than 1% at

1 kHz

Headphones MDR-IF310

Power source

DC 3 V, 2 × R6 (size

AA) battery

Weight

Approx. 170 g (6.0 oz.)

incl. batteries

Design and specifications subject to change

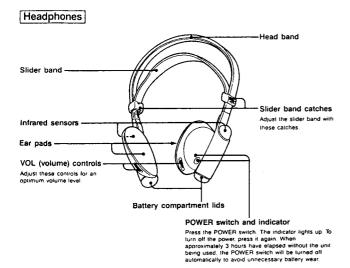
without notice.

CORDLESS STEREO HEADPHONES

SECTION 1 GENERAL

This section is extracted from instruction manual.

Parts Identification



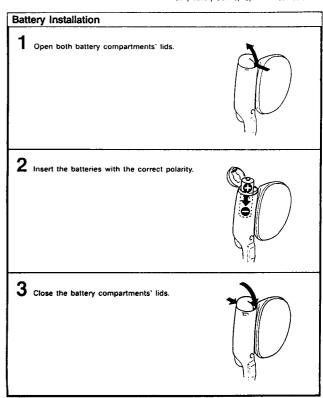
Power Source of the Headphones

Use two R6 (size AA) batteries for the headphones. Be sure to use the same type of batteries for both right and left battery compartments.

When the batteries become weak
The POWER indicator dims, and a hissing
noise increases. In such a case, replace both
batteries.

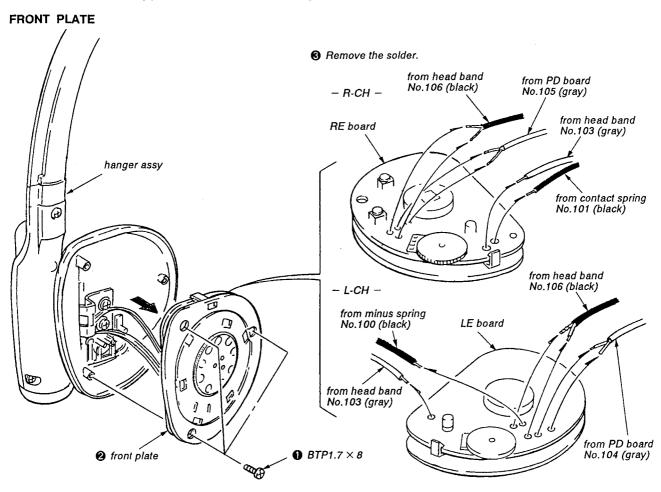
The approximate battery life for continuous operation is as follows:

Sony alkaline battery AM3(N): 120 hours Sony battery SUM-3(NS): 60 hours

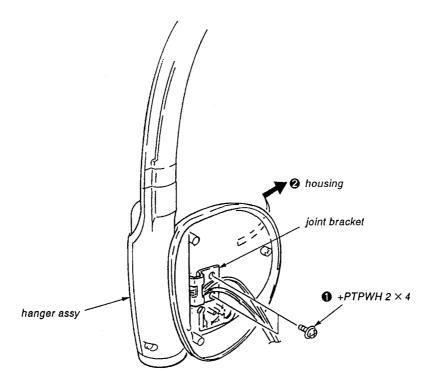


SECTION 2 DISASSEMBLY

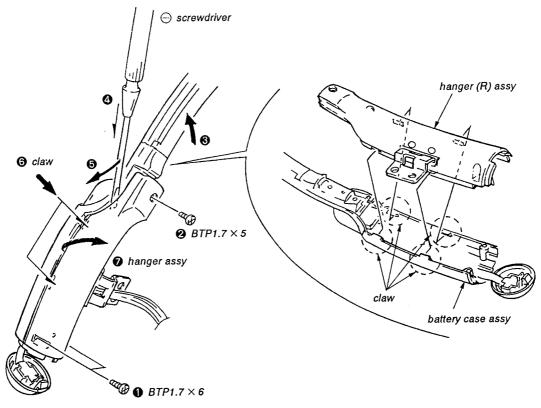
Note: Follow the disassembly procedure in the numerical order given.

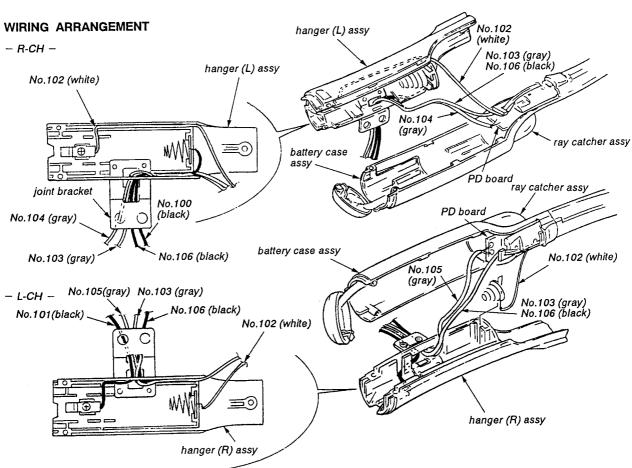






HANGER





SECTION 3 ADJUSTMENTS

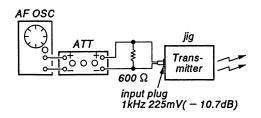
Note:

- On adjusting, use the transmitter (TMR-IF5) as a jig.
- 2. L-ch adjustment should be completed before performing R-ch

0 dB = 0.775 V

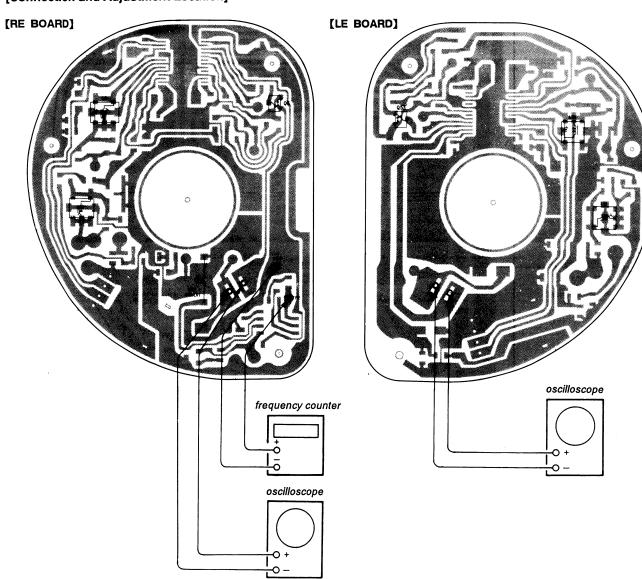
[Receiving Frequency Adjustment]

Preparation:



- 1. Feed a signal to jig (TMR-IF5) and connect a power supply.
- Volume control: Optional position.
 Short-circuit: Q3 (Q53) Base Emitter (Ground)

[Connection and Adjustment Location]



Procedure:

- 1. Connect a oscilloscope to SP1 or SP51.
- 2. Turn on the power switch on the headphones.
- 3. Adjust to make minute input level with changing the direction of the emitting position of jig so that the noise appears on the waveform.
- 4. Adjust with L5 (L-ch) or L55 (R-ch) to maximize the reading on the oscilloscope.
- 5. Adjust with L1 (L-ch) or L51 (R-ch) to maximize the reading on the oscilloscope.
- Release the short-circuit position.

 Q3 (Q53) Base Emitter (Ground)

[Timer Clock Frequency Check]

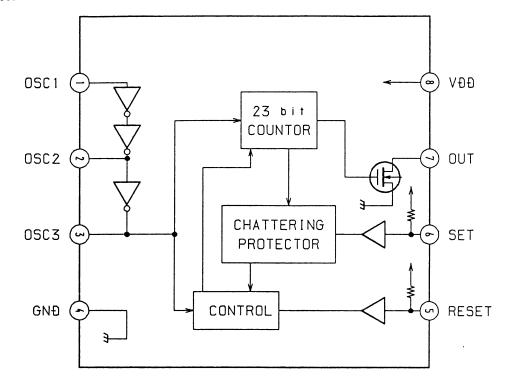
- 1. Connect a frequency counter to TP2 and TP (GND).
- 2. Check the reading on the frequency counter becomes to the checking

Checking value: 300 Hz - 390 Hz.

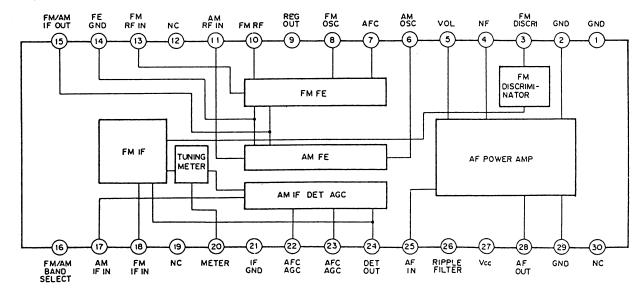
SECTION 4 DIAGRAMS

• IC Block Diagrams

IC2 BU2305F



IC21, 51 CXA1280N



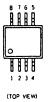
4-1. PRINTED WIRING BOARDS

• Semiconductor Location

Ref. No.	Location
D1	G-3
D2	E-2
D52	D-12
IC1	C-4
IC2	H-5
IC51	D-10
PH101	A-5, A-8
PH102	A-6, A-9
Q2	H-4
Q3	D-5
Q4	D-4
Q5	D-5
Q51	E-13
Q53	D-9
Q54	C-9
Q55	D-9

• Semiconductor Lead Layout





CXA1280N

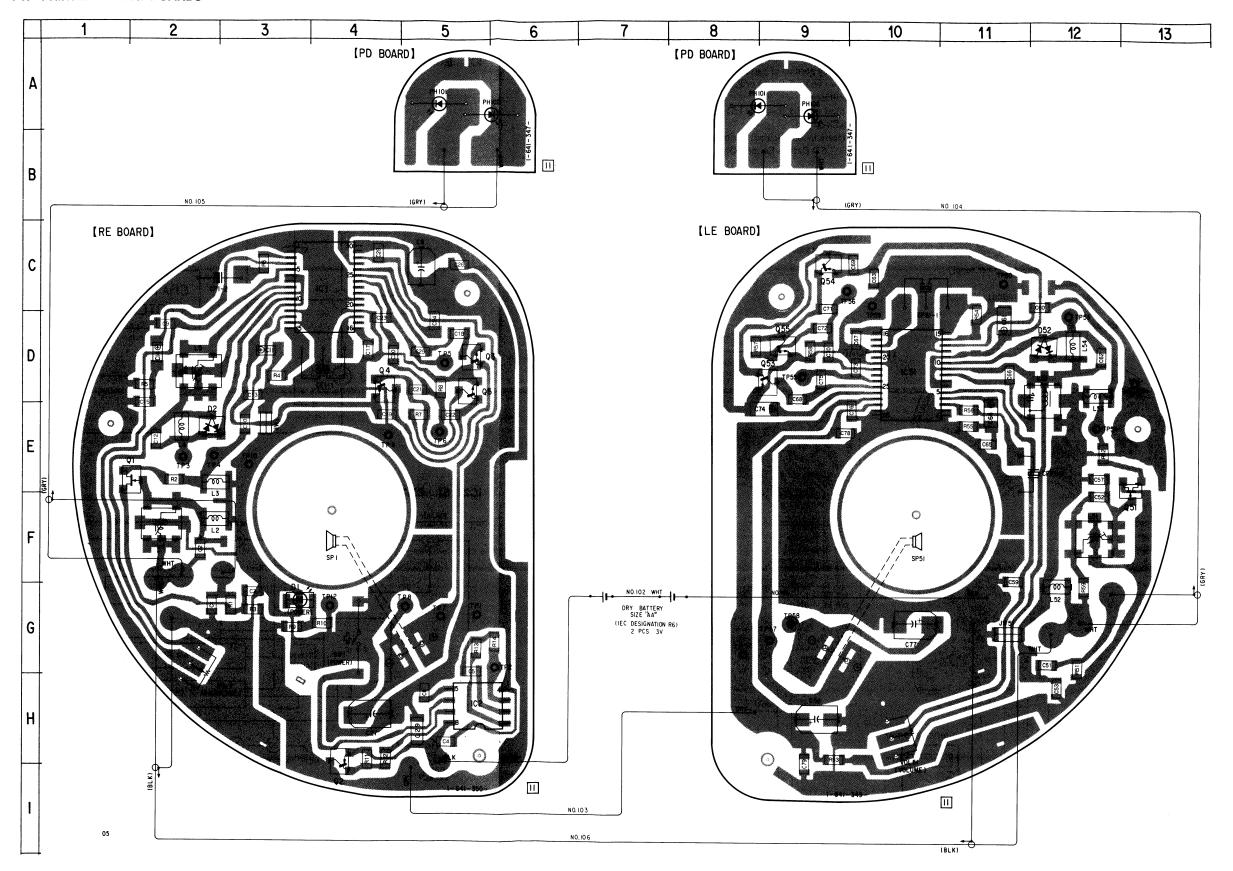


PP601-1



CL-150R-CD



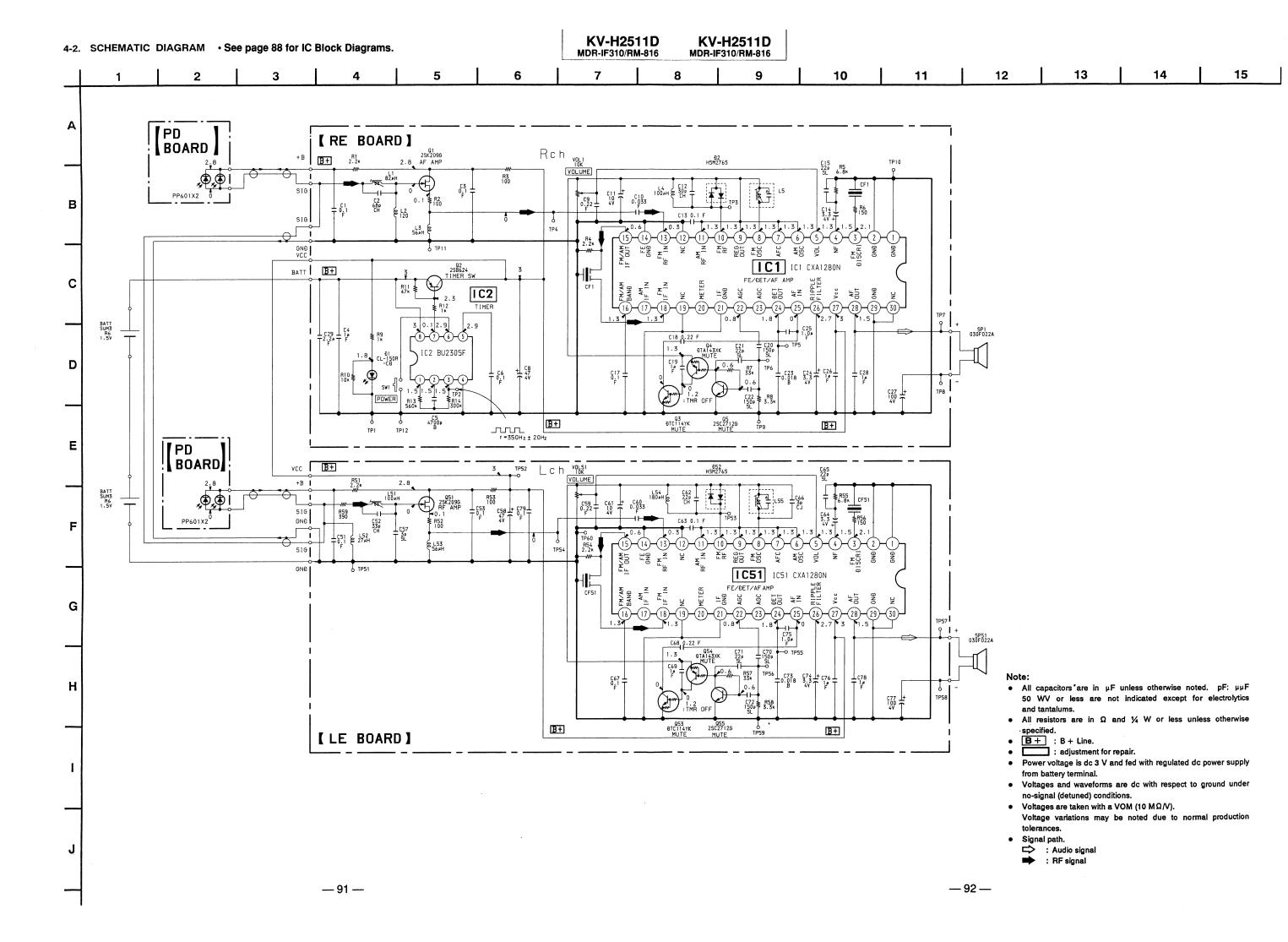


Note:

o : parts extracted from the component side.

• : Through hole.

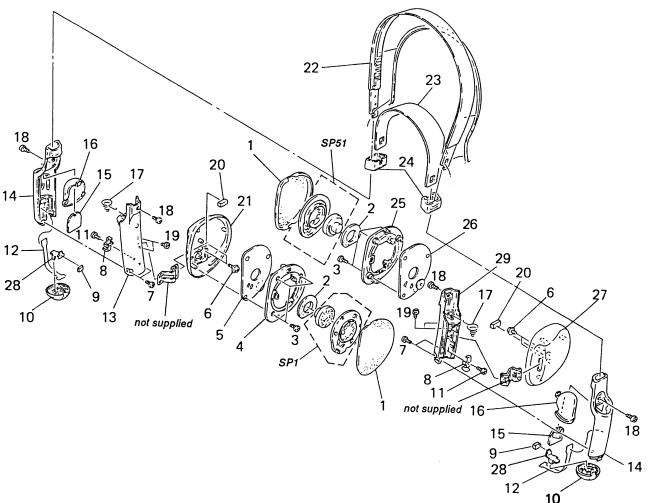
Pattern on the side which is seen.



SECTION 5 EXPLODED VIEW

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original
- Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE) ... (RED)
 - Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering
- The mechanical parts with no reference number in the exploded views are not



							10	
Ref. No.	Part No.	<u>Description</u>	Remark	Ref. No.	Part No.	Description		Remark
1	4-947-791-01	PAD, EAR		16	4-947-790-01	COVER, RAY CATC	HER	
* 2	4-948-895-01	DAMPER		17		SPRING, MINUS		
3	3-318-203-31	SCREW (B1.7X8), TAPPING		18		SCREW (B1.7X6),	TAPPING	
* 4	4-947-813-01	PLATE (R), FRONT	}	19		SCREW +P 1.7X3	1111 1 1110	
* 5	A-4542-062-A	RE BOARD, COMPLETE		20	4-947-796-01			
			1					
6	3-313-392-01	SCREW (2X4), + PTPWH	1	21	X-4941-959-1	HOUSING (R) ASS	Υ	
7	3-318-203-11	SCREW (B1.7X6), TAPPING	ŀ	* 22	4-947-809-01	, ,	•	
8		SPRING, CONTACT		* 23		BAND, SLIDER		
9	9-911-838-XX	CUSHION		24		KNOB, SLIDER		
10	4-947-800-01	LID, BATTERY CASE		* 25		PLATE (L), FRON	т	
						12.112 (2), 11.01.	•	
11	7-627-552-07	SCREW (M1.7X2.5), TAPPING		* 26	A-4542-061-A	LE BOARD, COMPL	FTF	
12	4-947-789-01	SHEET		27	4-947-804-01		DID.	
13	4-947-810-01	HANGER (R)		28		TERMINAL, PLUS		
14		CASE, BATTERY		29	4-947-811-01			
* 15	1-641-347-11	PC BOARD, PD		SP1		DRIVER UNIT (03	F0224)	
		·		SP51		DRIVER UNIT (03		
				5.01	. 000 111 11	DILLIPIT OHILL (03	ruaan)	



SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original
- RESISTORS All resistors are in ohms.
 METAL: Metal-film resistor
 METAL OXIDE: Metal Oxide-film resistor
 F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• SEMICONDUCTORS

When including parts by reference number, please include the board

- In each case, u: μ , for example: uA...: μ A..., uPA...; μ PA..., uPB...: μ PB..., uPC...: μ PC..., uPD...: μ PD... • CAPACITORS uF: μF
- COILS uH: μH

Ref. No.	Part No.	Description		<u> </u>	<u>Remark</u>	Ref. No.	Part No.	Description			Remark
*	A-4542-061-A	LE BOARD, COMPL	rrr -					< JAMPER >			
•	11 4042 001 N	**********						\ JAMI EK /			
			•••			J₩51	1-216-296-00	METAL CHIP	0	5%	1/8W
	1-578-717-71	FILTER, CRYSTAL									-,
								< COIL >			
		< CAPACITOR >									
051		ann				L51	1-424-333-11				
C51		CERAMIC CHIP	0. 1uF	5 0/	25V	L52		INDUCTOR CHIP	27uH		
C52		CERAMIC CHIP	33PF	5%	50V	L53		INDUCTOR CHIP	56uH		
C53 C57		CERAMIC CHIP	0. 1uF 3PF		25V	L54		INDUCTOR CHIP	180uH		
C57	1-103-005-00	CERAMIC CHIP	arr 47uF	200	50V 4V	L55	1-406-436-11	COIL (OSC)			
C30	1-120-007-11	ELEC: CHIP	4/ur	20%	41			< TRANSISTOR >			
C59	1-164-222-11	CERAMIC CHIP	0. 22uF		25V			< IMMOISION >			
C60		CERAMIC CHIP	0. 033uF		50V	Q51	8-729-220-93	TRANSISTOR 2SK2	09-G		
C61		TANTALUM CHIP	10uF	20%	4V	Q53		TRANSISTOR DTC1			
C62		CERAMIC CHIP	22PF	5%	50V	Q54		TRANSISTOR DTA1			
C63		CERAMIC CHIP	0. 1uF		25V	Q55		TRANSISTOR 2SC2			
						·					
C64		TANTALUM CHIP	3. 3uF	20%	6. 3V			< RESISTOR >			
C65		CERAMIC CHIP	22PF	5%	50V						
C66		CERAMIC CHIP	3PF	0. 25PF		R51	1-216-057-00		2. 2K		1/10W
C67		CERAMIC CHIP	0. 1uF		25V	R52	1-216-025-00		100	5%	1/10W
C68	1-164-222-11	CERAMIC CHIP	0. 22uF		25V	R53	1-216-025-00		100	5%	1/10W
000		0777447				R54	1-216-057-00		2. 2K		1/10W
C69		CERAMIC CHIP	luF		167	R55	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
C70		CERAMIC CHIP	150PF	5%	50V						1 /107
C71		CERAMIC CHIP	22PF	5%	50V	R56	1-216-029-00		150	5%	1/10W
C72 C73		CERAMIC CHIP	150PF	5%	50V	R57	1-216-085-00		33K	5%	1/10W
C/3	1-103-024-00	CERAMIC CHIP	0. 018uF	10%	50V	R58	1-216-061-00		3. 3K		1/10W
C74	1_125_120_21	TANTALUM CHIP	3. 3uF	20%	6. 3V	R59	1-216-039-00	METAL CHIP	390	5%	1/10W
C75		CERAMIC CHIP	luF	20%	16V			< VARIABLE RESIS	STOR >		
C76		CERAMIC CHIP	luF		16V			V VARIABLE REST	310K /		
C77	1-126-209-11		100uF	20%	4V	VOI 51	1-238-906-11	RES, VAR, CARBO	N 10K	(vor.)	
C78		CERAMIC CHIP	luF	2070	167	TODGI	1 230 300 11	nio, vin, childo	i Ion	(100)	
C79		CERAMIC CHIP	0. 1uF		25V	*****	******	****	******	*****	******
					20.						
		< DIODE >				*	1-641-347-11	PD BOARD			

D52	8-719-946-33	DIODE HSM276S									
		/ IC >						< PHOTO DIODE >			
		< IC >				DU101	9_710_07E 20	PHOTO DIODE PP6	01_1		
IC51	8-759-605-59	IC CXA1280N						PHOTO DIODE PP6			
1001	0 100 000 00	TO OMITEOUR				111102	0 113 313-20	THOTO DIODE ITO	VI 1		
					1	******	*******	******	*****	*****	******



												L
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			ļ	Remark
*	A-4542-062-A	RE BOARD, COMP				L5	1-406-436-11	COIL (OSC)				
	1-578-717-71	FILTER, CRYSTA	ī.					< TRANSISTOR >				
		< CAPACITOR >	-			Q1		TRANSISTOR 2SK				
a.						Q2 Q3	8-729-900-52	TRANSISTOR 2SB TRANSISTOR DTC	114YK	145		
C1 C2		CERAMIC CHIP	0. 1uF 68PF	5%	25V 50V	Q4 Q5		TRANSISTOR DTA TRANSISTOR 2SC		!		
C3	1-163-038-00	CERAMIC CHIP	0. luf	0,0	25V	40	0 (20 200 40	TRANSISTOR 25C	2112-10	ľ		
C4 C5		CERAMIC CHIP	1uF 0. 0047uF	5%	16V 50V			< RESISTOR >				
			0.001741	070	301	R1	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W	
C6 C8		CERAMIC CHIP	0. 1uF	0.004	25V	R2	1-216-025-00		100	5%	1/10W	
C9	1-126-607-11	CERAMIC CHIP	47uF 0. 22uF	20%	4V 25V	R3 R4	1-216-025-00 1-216-057-00		100	5%	1/10W	
C10		CERAMIC CHIP	0. 033uF		50V	R5	1-216-057-00		2. 2K 6. 8K	5% 5%	1/10\ 1/10\	
C11		TANTALUM CHIP	10uF	20%	4V		1 510 000 00	mbring citi	0. 01.	570	1/10#	
610	1 100 104 00	00011110 01110				R6	1-216-029-00		150	5%	1/10W	
C12 C13		CERAMIC CHIP	30PF	5%	50V	R7	1-216-085-00		33K	5%	1/10₩	
C13		TANTALUM CHIP	0. 1uF 3. 3uF	20%	25V 6. 3V	R8 R9	1-216-061-00		3. 3K	5%	1/10W	
C15		CERAMIC CHIP	22PF	20% 5%	50V	R10	1-216-049-00 1-216-073-00		1K 10K	5% 5%	1/10\ 1/10\	
C17		CERAMIC CHIP	0. 1uF	0.0	25V	1110	1 210 013 00	MDIAD CITT	101	JA	1/10#	
010						R11	1-216-089-00	METAL CHIP	47K	5%	1/10\	
C18 C19	1-164-222-11		0. 22uF		25V	R12	1-216-049-00		1K	5%	1/10₩	
C20	1-164-346-11 1-163-121-00		luF 150PF	5%	16V 50V	R13 R14	1-216-115-00		560K	5%	1/10₩	
C21	1-163-101-00		22PF	5%	50V	K14	1-216-108-00	METAL CHIP	300K	5%	1/10₩	
C22	1-163-121-00		150PF	5%	50V			< SWITCH >				
C23	1-163-024-00	CERAMIC CHIP	0. 018uF	10%	50V	SW1	1 570 479 11	CWITCH TACTA	(DOMED)			
C24		TANTALUM CHIP	3. 3uF	20%	6. 3V	311	1-512-415-11	SWITCH, TACTIL	(PUWEK,)		
	1-164-346-11		luF		16V			< VARIABLE RESI	STOR >			
C26	1-164-346-11		1uF		16V							
C27	1-126-209-11	ELECT CHIP	100uF	20%	47	VOL1	1-238-906-11	RES, VAR, CARBO	N 10K	(VOL)		
C28	1-164-346-11	CERAMIC CHIP	luF		16V	*******	******	******	*****	****	******	****
C29	1-164-337-11	CERAMIC CHIP	2. 2uF		167							
		< DIODE >										
	8-719-989-22	DIODE CL-150R-C	D									
D2	8-719-946-33	DIODE HSM276S										
		< IC >										
IC1	8-759-605-59											
IC2	8-759-044-56	IC B02305F	4									
		< JAMPER >										
JW1	1-216-296-00	METAL CHIP	0 5%	1/8W								
		< COIL >										
	1-424-334-11	COIL										
	1-410-655-31		120uH									
	1-410-390-11 1-410-393-11		56uH 100uH									
	* 410 03011	TUDOCTOR CITE	roomi									

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